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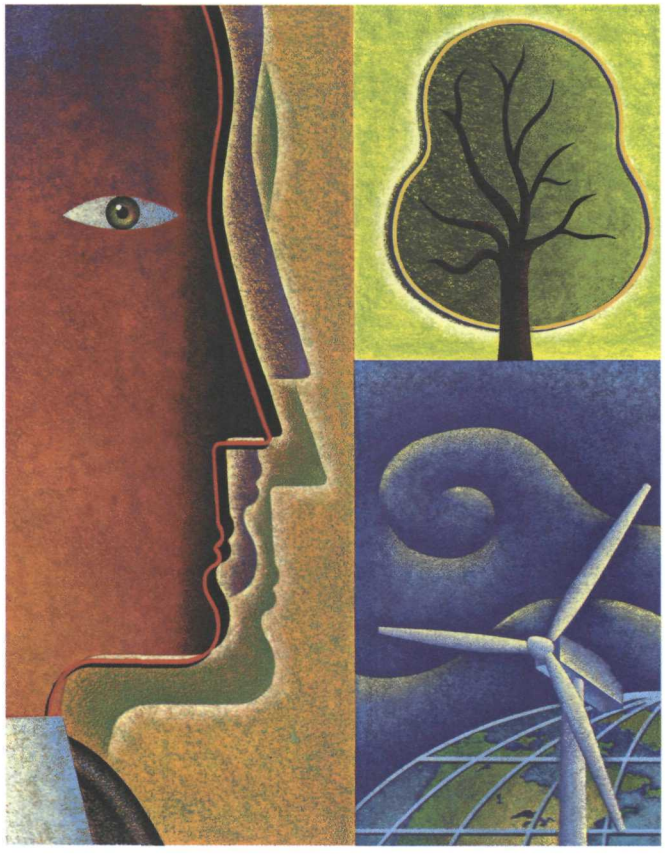
Revision 1
Expanded Groundwater Monitoring Report

Muskego Sanitary Landfill

November 2007



Appendix A
Correspondence with EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

DEC 22 2000

DEC 22 2000

REPLY TO THE ATTENTION OF

SR-6J

Mr. Lawrence J. Buechel
Waste Management
W124N9355
Menomonee Falls, WI 53051

Re: Muskego Sanitary Landfill National Priorities List Superfund Site

Dear Mr. Buechel,

On behalf of the United States Environmental Protection Agency (U.S. EPA) and the Wisconsin Department of Natural Resources (WDNR), I am writing to you for several reasons.

We have had discussions with the Muskego Groundwater Site Remediation Group (MGSRG) on and off in the last year regarding expanding the municipal distribution system, expanding the well monitoring network, increasing the understanding of the off-site hydro-geology, and contaminant transport pathways, and abandonment of some off-site wells.

I would like to thank the MGSRG for doing their part to complete the municipal residential hook-ups that were previously identified as at-risk. During 2000, the MGSRG, along with the City of Muskego completed installation of the expanded municipal water supply. We know that these measures will continue to assure the safety and welfare of the public.

I would also like to formally request that an expanded monitoring plan be submitted for the Muskego Sanitary Landfill Site. We are asking that a change in the groundwater monitoring system be undertaken since at this point, since there is a observed need for additional information both south and east of the Site. In this regard, enclosed is a recent letter written to U.S. EPA by Mayor De Angelis of the City of Muskego.

The purpose of the groundwater monitoring program is to monitor changes in contaminant characteristics, the effectiveness of the groundwater capture and increase/decrease in the individual contaminants at and adjacent to the site. In order to effectively do so, it will be important to summarize known information to date, to identify possible data gaps, expand the groundwater monitoring program to address the data gaps, and assess the need for additional investigation or other actions. Please prepare and submit to both U.S. EPA and WDNR, a plan for approval which addresses these concerns.

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I would like to propose that you submit this report/draft work plan by the end of January 2001. U.S. EPA believes that this additional work is covered by the existing Unilateral Administrative Order. A face-to-face meeting may be also appropriate in the near future. The plan should also address abandonment of the private wells which are contaminated. We hope to get the revised plan approved and implemented by the spring of 2001. I may be reached at (312) 886-4745, if you would like additional information or to discuss this further.

Sincerely,

Sheri L. Bianchin
Remedial Project Manager

cc: Mayor De Angelis; City of Muskego
Lisa Zebovitz, Esq.; MSGRG
James C. Delewiche; WDNR
Thomas Krueger, Esq.; U.S. EPA
Brianna Bill; U.S. EPA, CIC

MUSKEGO SITE GROUNDWATER REMEDIATION GROUP
Address Writer at
N96 W13600 County Line Road
Germantown, Wisconsin 53022

August 15, 2005

Ms. Sheri L. Bianchin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

Re: Muskego Site Groundwater Remediation Group
Expanded Groundwater Monitoring Work Plan

Dear Ms. Bianchin:

This letter summarizes our telephone conversation on June 24, 2005 regarding EPA's May 4, 2005 e-mail comments on the Muskego Site Groundwater Remediation Group's ("MSGRG") Expanded Groundwater Monitoring Work Plan ("EGMWP"). The comments specifically addressed the January 30, 2004 version of the EGMWP and MSGRG's October 22, 2004 submittal, which proposed modifications to that EGMWP. I believe this summary accurately reflects the substance of EPA's comments and our discussion of these comments. On behalf of the MSGRG, I appreciated the opportunity to discuss these outstanding issues with you so that we can move closer to implementing the EGMWP.

1. EPA Comment: The proposed well locations are still inadequate to the south and southeast. U.S. EPA requires that another set of monitoring wells be installed off-site (EPA correspondence dated June 2002 and October 2003, comments 39 and 40).

I indicated that the MSGRG has proposed the nine well locations in the EGMWP to determine groundwater quality and flow directions in the primary areas of interest. As indicated in Section 3.6 of the EGMWP, the MSGRG plans to evaluate the need for additional well locations based on the results of the data collected under this work plan.

2. EPA Comment: EPA initially required that a full scan be done on the first round of groundwater samples, (see U.S. EPA correspondence dated June 2002 and October 2003, comment 4), but will accept sampling of VOCs, full suite of inorganics and SVOCs.

During our discussion, I indicated I would need to follow up with you on this issue after doing some further review. MSGRG had previously responded to this issue in its January 24, 2003 Response to USEPA Comments and in Revision 2 of the EGMWP. MSGRG also offers the following regarding this issue. Extensive time and effort was expended during the Remedial Investigation of the Muskego Sanitary Landfill to establish which constituents contribute to potential risk. The results of that evaluation are discussed in the Baseline Risk Assessment (BLRA) prepared for the Site, and summarized in the Groundwater Operable Unit (GWOU) Record of Decision (ROD), Section VI.D. – Risk Characterization. Any evaluation done under this EGMWP should be consistent with that work.

VOCs were included in Table 8 of the January 30, 2004 EGMWP – Revision 2, as analytes for evaluation, which is consistent with the findings of the BLRA and ROD.

Inorganic Constituents of Potential Concern (COPC) identified in the GWOU ROD, Section VI.D. - Risk Characterization, as constituents contributing to potential risk were thallium, (identified in one sample in one well in the Southern Flow Path), and arsenic and manganese in the NCFA. However, it should be noted that neither arsenic nor manganese were identified in either of the flow paths as contributing to potential risk.

No SVOC COPCs were identified in the GWOU ROD, Section VI.D. - Risk Characterization, as constituents contributing to potential risk. Further, in the October 22, 2004 response, the MSGRG responded to a comment by Dr. Layne regarding PAHs (see comment number 7 of that response) summarizing the SVOC detections on site and concluded that SVOCs are not COPCs.

Based on the above, in order to remain consistent with the findings of the BLRA and GWOU ROD, MSGRG proposes to add arsenic and thallium to Table 8 of the EGMWP. VOCs and manganese were previously included in Table 8 of the January 30, 2004 EGMWP – Revisions 2.

3. EPA Comment: EPA believes that sampling of County Park Wells, Stagecoach and Moose Lodge property wells are warranted. (EPA correspondence dated June 2002 and October 2003, comment 40 and 43).

During our conversation, I indicated that the MSGRG proposed sampling on-site wells that are in the same general vicinity, same stratigraphic units and have similar constituents and concentrations as noted in the Stagecoach and Moose Lodge property monitoring wells. Consequently, sampling of the Stagecoach and Moose Lodge property monitoring wells would not provide additional, meaningful data.

EPA has requested the MSGRG sample the County Park Wells, including a well located in the southern portion of the park and one in the northern portion of the park. The southern well has a hand pump installed in it. These hand pumps are not designed for low-level VOC data acquisition in that they can have greased seals to create the suction or piston lift for the water. The northern well has a typical submersible pump, however, it is located in the

data acquisition in that they can have greased seals to create the suction or piston lift for the water. The northern well has a typical submersible pump, however, it is located in the northern portion of the park, well north of, and outside the area of potential influence by, the Site. In addition, there are 6 monitoring wells (including 2 in the southern portion of the County Park) proposed to be installed between the landfill and City Well 7 to monitor groundwater flow directions and groundwater quality in the area. Therefore, sampling the County Park wells would not add significant information.

4. EPA Comment: Identify and sample any irrigation/industrial high capacity wells within this two-mile radius. (EPA correspondence dated June 2002 and October 2003, comment 53). Example, the wells west of the Site in the gravel pit.

We discussed that this appears to be a new request. You were going to check as to whether this has been requested in the past. Section 3.6 of the EGMWP included a description of the survey of water supply wells to be completed.

In addition, the operators of the gravel pit (Payne and Dolan) have told us that they do not have a high capacity well and the WDNR high cap well data base does not indicate they have a high capacity well.

5. EPA Comment: Section 3.1.6. Clarify the SOP for the vertical aquifer sampling at MW-3A.

We discussed that the MSGRG felt the October 22, 2004 response addressed this request (Bob Kay comment 2 and the proposed changes to the Work Plan in Appendix A). You agreed to check this response.

6. EPA Comment: Section 3.5. For purposes of clarification, the water-level measurements should be performed prior to the first and the second sampling events. At least two measurement rounds should be performed.

I indicated groundwater elevation measurements were included in the Work Plan in Section 3.5 of the EGMWP. You agreed to check the language in the Work Plan. As a clarification, the Work Plan states that water levels will be "measured one to two days prior to water quality sampling event." There are two water quality sampling events planned, approximately one month apart. The "s" on events was inadvertently left out and will be added to the final EGMWP.

7. EPA Comment: EPA required submission of the site database to EPA with a specific deadline. (Comment 11). Based upon discussion, it was decided that EPA would first get available data from WDNR, then request the remaining information from the MSGRG. EPA has coordinated with the WDNR to get existing data from the Wisconsin GEMS system data base. The following information is still lacking and we request that the following information be submitted. It appears that we still do not know what "projection" nor the "datum" the coordinates are in. Although it appears that the coordinates are in the WI State Plane, South system, they do not map out to where they should be (based on the known location of the site.) We also do not know what datum they are in. Normally it is either in NAD 27 or NAD 83. Please check these coordinates and provide the missing coordinates. Attached is a list of all of the coordinates and the missing ones. To the best of your ability, please clarify the information. In addition, for Table 5.2 Lithology, submit the geologic units information in the R5 EDD

format. It would be most useful if the interpolated geological unit classification could be provided. At this point, we do not need all of the lithology for each lithologic unit.

You agreed to send the attachment of the well coordinates for the MSGRG to verify. The MSGRG response will include the projection used and the elevation datum. During our discussion I forgot to mention that we do not recognize the reference to "Table 5.2 Lithology." Can you please identify? Nonetheless, preparation of the R5 EDD format for past geologic data is an intensive effort, with limited benefit. Future data gathered at the site can be developed in this format, if that is your preference.

8. EPA Comment: Also, can any recommendations, especially # 14 and #15, made in the Second Five Year Review be incorporated into the expanded groundwater monitoring program or does it make sense for this work to occur separately? Following are those Five Year Review Recommendations:

14. Abandonment of contaminated residential wells after wells are sampled;

15. Abandonment of deep (former manufacturing) on-site wells after wells are sampled;

In order to simplify the approval process for the EGMWP, the MSGRG would prefer to manage these issues separately from the EGMWP.

9. EPA Comment: Add a discussion regarding what the MSGRG committed to provide in the final report such as information on residential hook-ups which will be obtained from the City of Muskego. (Comment 23).

The MSGRG included the proposed contents of the final report in the January 30, 2004 EGMWP in Section 3.6 of the EGMWP. One of the bullets listing the topics to be included in the Report discussed the residential hook-ups and stated that information will be provided on the source and use of groundwater and/or surface water at each home located within a radius equal to the distance between the site and Henneberry Road in a downgradient direction of the Site based on the regional water table map in Appendix C of the EGMWP. Also, any vacant land that may be subject to future development will be discussed as part of this evaluation.

10. EPA Comment: After information containing historic VOC detections in private wells that are now hooked up to a municipal water source will be presented in the final report following field work completion, then EPA will likely require that wells will be abandoned. (Comments 2 and 24)

As we discussed, the MSGRG does not have the authority to abandon residential wells against the resident's wishes, but will offer well abandonments again and document our "best efforts" to have those wells abandoned.

11. EPA Comment: Tables. Any available well logs should be provided.

The available monitoring well logs and private well logs have been provided in the RI Report and will be updated in the EGMWP.

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Quality Assurance Plan Comments:

12. EPA Comment: QAPP Page B-4; Section B2.2 EPA requested the addition of specific language.

This language is already included in the Work Plan and it will be added to the specified location in the QAPP.

13. EPA Comment: In addition, provide a more thorough description or specific operating procedure (SOP) for the quick turn around VOC analyses which will be used in selecting the screen locations of the well to be installed.

The same analytical methods will be used for the quick turn around VOC analyses as for the routine turn around VOC analyses, including all laboratory QAQC. This method is described in Table A-2 of the January 30, 2004 QAPP, on the line "Groundwater – During Drilling – VOCs – SW-846 Method 5030B/8260B. The SOP for these methods is included in the QAPP in Attachment A – Laboratory SOPs.

14. EPA Comment: The October 22, 2004 proposed work plan revision clarified that the sample interval will be 10 feet in length and will occur essentially continuously if proper geologic media (sand/gravel) are encountered. The following may also be added, a 5 ft screen will be allowed if and only if a 10-foot interval proves to be unworkable in the field.

This will be added to the Work Plan.

15. EPA Comment: Figure 1 of the QAPP: MSGRG Project Coordinator/Manager should be Lawrence Buechel.

This will be modified in Figure 1.

16. EPA Comment: Did the October 22nd revision address the following concern as articulated by Warren Layne, PhD, on August 20, 2004?

From Dr. Layne's August 20, 2004 memo:

"I am following up on our recent discussion of my questions and comments regarding the Muskego QAPP addendum for extended groundwater monitoring. The following are two references that give excellent SOPs for cleaning glassware. Note that the water used is characterized by its conductivity. It could have also been characterized by the type of filter used to prepare it (for example: MilliQ which refers to ion exchanged and then distilled water prepared using a dedicated apparatus produced by Millipore Co. that gives a known conductivity water, usually 18 mili-ohms or less, as I recall). I hope these SOPs will be helpful: What is required in section B5 is a brief description of how each phase of the attached 7 step DQO procedure apply to the work described in your QAPP."

The October 22, 2004 response did reply to Dr. Layne's comment in response number 8. The only difference is that the MSGRG thought the 7-step DQO process was more appropriately included in Section A7.1 Data Quality Objectives instead of section B5 QC Requirements as noted by Dr. Layne. You agreed to check this response.

Finally, you indicated that you thought EPA could approve the EGMWP with modifications and require the above revisions be provided in a final document, along with those

revisions proposed in the MSGRG's October 22, 2004 submittal to EPA. The final EGMWP would be provided to EPA prior to beginning any associated field work.

Please do not hesitate to call me if you feel the above summary is not an accurate reflection of our conversation. I may be reached at (262) 253-8626, ext. 123.

Sincerely,

Muskego Site Groundwater Remediation Group

Lawrence J. Buechel, P.E.
Project Coordinator

cc: Jim Delwiche, WDNR
MSGRG Steering Committee

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

SR-6J

August 24, 2005

Via E-Mail and
Regular Mail

Mr. Lawrence J. Buechel
Project Manager
Waste Management
W124 N9355 Boundary Road
Menominee Falls, WI 53051

Re: Approval with Modifications of Expanded Groundwater Monitoring Work Plan and Quality Assurance Project Plan; Muskego Sanitary Landfill National Priorities List (NPL) Superfund Site ("Muskego Site"), Muskego Wisconsin

Dear Mr Buechel,

The United States Environmental Protection Agency ("U.S. EPA") has reviewed the Expanded Groundwater Monitoring Work Plan - Revision 2 ("Workplan") and the Quality Assurance Project Plan - Revision 0 ("QAPP") dated January 2004 ("EGWMP") along with subsequent information submitted by the Muskego Groundwater Site Remediation Group ("MSGRG") for the Muskego Site in October 2004 and August 2005. This letter constitutes approval of the subject documents subject to certain conditions. Based upon U.S. EPA's review of the EGWMP, subsequent submittals and much thoughtful discussion, U.S. EPA hereby approves the subject documents with the enclosed modifications. Along with required modifications, the enclosure to this letter provides comments which are not required modifications but should be addressed via inclusion in the subject documents or via a written response indicating why any such comments were not addressed.

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The Work contained in the EGWMP is required pursuant to Unilateral Administrative Orders ("UAO") No. V-W-92-C-173 and No. V-W-95-C-29, and pursuant to Section 121 of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. §9621, whereby studies and periodic reviews may be required to assure that human health and the environment continue to be protected when hazardous substances, pollutants or contaminants are found at or remain in place at Superfund sites.

Prior to the initiation of field work, the MSGRG must revise the EGWMP and submit the revised EGWMP to U.S. EPA (5 copies) and other appropriate agencies such as the WDNR, WDPH, and the City of Muskego. Please submit the revised EGWMP and any comments in electronic form along with the written submission. In accordance with the EGWMP, field work must be initiated within four (4) weeks of receipt of this letter unless an alternate schedule is approved by the U.S. EPA. Please provide U.S. EPA and the other appropriate agencies involved in this matter at least two (2) weeks advanced notice of the start of field work so that we will have the opportunity to schedule oversight of the activities.

We are pleased to move the EGWMP forward to the field phase. If you have any questions about this matter or the enclosed modifications, you may contact me at (312) 886-4745 or at bianchin.sheri@epa.gov.

Sincerely,

Sheri L. Bianchin
Remedial Project Manager
Remedial Response Section #6

enclosure

cc: Ms. Lisa Zebovitz, MSGRG
Mr. Kenneth J. Quinn, Montgomery Watson
Mr. James C. Delewiche, WDNR
Ms. Sharon Schaver, WDNR
Ms. Nancy Payne, WDNR
Mr. Thomas Krueger, U.S. EPA
Ms. Susan Pastor, U.S. EPA
Mr. Henry Nehls-Lowe, Wisconsin Health Department
Mr. Joseph Janczy, U.S. EPA
Mr. Scott Kloskowski, City of Muskego
Mr. Ted Powell, Ruekert Milke
Mr. Bob Kay, USGS/U.S. EPA
Mr. Dave Wilson, U.S. EPA
Mr. Warren Layne, PhD, U.S. EPA
Mr. Paul Rohde, CH2MHill

Enclosure

Modifications and Review Comments for the Expanded Groundwater Monitoring Work Plan -Revision 2 ("Work Plan") and Quality Assurance Project Plan- Revision 0 ("QAPP")

Based upon U.S. EPA's review of the above-mentioned Work Plan and Quality Assurance Project Plan, collectively referred to as the Expanded Groundwater Monitoring Plan ("EGWMP"), subsequent submittals and much thoughtful discussion, U.S. EPA hereby approves the subject documents with the following modifications. As has been previously discussed, U.S. EPA may require additional work to fill remaining data gaps after completion of the Work required in the Work Plans.

Work Plan Modifications Required:

1. *General Comment:* Revise the EGWMP to include the draft proposals and information provided by the MSGRG contained in the correspondence dated October 22, 2004, (Responses to Comments from Warren Layne and Bob Kay), and contained in the correspondence dated August 15, 2005 (Response to Comment 5, 6, 9, 10, 11, 12, 13, 14, 15, and 16) regarding the EGWMP. Those modifications must be incorporated in the Work Plan.

2. *Work Plan Section 2.3.11, Soil Vapor Intrusion:* Replace the last paragraph on Page 17 with the following: "The possibility of soil vapor intrusion will be re-evaluated after the information is obtained and data analyzed from the field effort proposed by this Work Plan."

3. *Work Plan Section 3.1.1, Groundwater Monitoring Well Locations:* U.S. EPA required that two (2) additional monitoring well be installed off-site (see comments 39 and 40 of U.S. EPA's correspondence dated June 2002 and October 2003 regarding the EGWMP) to address the data gaps to the south and southeast of the Site and to serve as a useful monitoring location to serve as a warning for any future down-gradient contaminant migration. U.S. EPA continues to believe these well locations will provide important information. Since the MSGRG is willing to evaluate additional wells to fill remaining data gaps after completion of the work in the EGWMP; then U.S. EPA will accept installation of one additional well cluster during this phase of the work subject to evaluation for the need for additional wells locations based upon the results of the data collected under this Work Plan. The additional well cluster shall be located between the Site landfill and the between the Vitrano and Pet Supply wells.

Requiring an additional well nest is justified since groundwater flow direction in the area down-gradient of the Muskego Sanitary Landfill is shown by the regional data to be to the south, southeast, and east, and based on the locations of wells proposed in Figure 1 of the EGWMP, it is apparent that additional data gaps exist in the to the southeast of the Site which have not been adequately characterized. Furthermore, water-quality data indicate that contamination may be present 1) between the Vitrano and Pet Supply wells (i.e., up-gradient of the Fischer and Moody wells) and 2) southeast of the Thiele and Pet Supply wells and that general area needs further characterization.

To address the above-mentioned data gaps and to serve as an early warning location for any future down-gradient contaminant migration, install an additional well cluster southeast of the between the Site between the Vitrano and the Pet Supply well locations. Incorporate this provision in the Work Plan and conduct the Work. Ensure that the QAPP is consistent with this section as well. Additionally, indicate that the MSGRG has agreed to evaluate the need for additional wells based upon the results of the data collected under this Work Plan.

4. *Work Plan Section 3.1.4; Groundwater Quality Sampling While Drilling:* As requested by the U.S. EPA, the MSGRG has now agreed to perform quick turn-around Volatile Organic Compound ("VOC") analyses associated with the vertical aquifer profiling. It has also been agreed that the quick turn around information will be used in selecting the screen locations of the well to be installed. Include this provision in the Work Plan. Additionally, as indicated in the August 15th correspondence, clarify that the same analytical methods will be used for the quick turn around VOC analyses as for the routine turn around VOC analyses including all laboratory QAQC. Also, ensure that the QAPP is consistent with this section. Ensure that the QAPP is consistent with this section.

5. *Work Plan Section 3.1.5; Groundwater Monitoring Well Construction:* The text states that clean soil cuttings (less than 5ppm) generated during well installation will be disposed of as clean fill within the landfill property. Disposal of the cuttings as *"clean fill material"* should not be done without verification that this is appropriate; therefore, provide support for the contention that the 5 parts per million ("ppm") criteria that was selected is equivalent to clean cuttings. U.S. EPA also requires that along with that criteria, that the soil be free of odor and visual evidence of contamination. Additionally, provide information as to where the clean soils will be disposed of at the landfill. Ensure that the QAPP is consistent with this section of the Work Plan as well.

6. *Work Plan Section 3.1.6, Special Considerations During Drilling:* Clarify the following: The depth of the screened interval for this well should be based on the results of the VOC analysis conducted as part of the vertical aquifer sampling with the understanding that the well should be placed at the location with the highest VOC detection in the lower sand-and-gravel unit. If the information from the vertical aquifer screening effort is not conclusive, then the screen placement of the deep well at well nest 3 should coincide with the screened interval of Muskego Utility Well 7 or in the closest sand unit to this interval. The decision pertaining to the depth of the final well placement should be discussed and approved in the field with U.S. EPA or their representatives prior to installation. Incorporate this provision in the Work Plan and ensure that the QAPP is consistent with this section as well.

7. *Work Plan Section 3.3; GROUNDWATER QUALITY SAMPLING AND ANALYSIS:* U.S. EPA required that a "full scan" (i.e, VOCs, SVOCs, inorganics, PCBs and pesticides) be performed on the groundwater samples collected for analysis. (See comment 41 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). In the interim, U.S. EPA would accept sampling of a full suite of inorganics (TAL) and VOCs (TCL) during this phase of the Work if reducing the list of parameters is justified in writing. Incorporate this provision in the Work Plan and conduct the Work. Ensure that the QAPP is consistent with this section as well.

8. *Work Plan Section 3.5*; GROUNDWATER LEVEL MEASUREMENTS: As was agreed to in the August 15th correspondence, clarify in the Work Plan that the water- level measurements will be performed one-two days prior each water quality sampling events. Ensure that the QAPP is consistent with this section as well.

9. *Work Plan Section 3.6; Reporting:* U.S. EPA required that the report be presented in both electronic and paper format. See also U.S. EPA's comment letters of June 2002 and October 2003 regarding the EGWMP.

Quality Assurance Plan Modifications Required:

10. *QAPP: Page B-4; Section B2.2*: Add the following provision to the QAPP: *"the decision pertaining to the depth of the final well placement should be discussed and approved in the field with U.S. EPA or their representatives prior to installation."*

11. *QAPP, Section B.1 and B.2:* As was agreed to in the proposed Work Plan/QAPP revision dated October 22, 2004 submitted by the MSGRG, revise the plans to indicate that VAS sampling for the new deep well locations will occur in 10 feet intervals and will occur essentially continuously if proper geologic media (sand/gravel) are encountered. As was further clarified in the August 15th correspondence, revise the plans to indicate that "a 5-foot screen will be allowed if and only if a 10-foot interval proves to be unworkable in the field." Also include the following provision in the Work Plan: *"The decision as to whether the 10 foot interval is unworkable shall be determined in the field and is subject to approval by U.S. EPA or their representatives."*

12. *QAPP, Figure 1*: As was agreed to in the August 15th correspondence, revise the QAPP to indicate that Lawrence Buechel is the MSGRG Project Coordinator/Manager.

Other Requirements associated with the EGWMP that Must Be Addressed

13. a) *Work Plan Section 2.5.3 - Page 19*: Replace first and second bullet with the following: Groundwater level measurements and groundwater flow directions in the upper and lower sand units which are beyond the Site boundary located in the east, south and southeast directions from the Site.

b) Work Plan Section 2.5.3 - Page 20: Replace third and forth bullets with the following: Groundwater level measurements and quality analyses in the upper and lower sand and gravel units which are beyond the Site boundary in the south, east and southeast directions.

c) Work Plan Section 2.5.3 - Page 20: Modify the sixth fifth bullet to read as follows: "Groundwater *inorganic and* VOC data . . ."

Incorporate these provisions in the Work Plan or provide a written response indicating why any such comments were not addressed.

14. *Work Plan Section 3.3, GROUNDWATER QUALITY SAMPLING AND ANALYSIS:* U.S. EPA requires that the following wells be sampled: County Park Wells, Stagecoach and Moose Lodge property wells and residential wells south and east of the landfill near the Site not

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sampled in the last year. (See comment 40 and 43 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). Incorporate this provision in the Work Plan or provide a written response indicating why this comment was not addressed in the Work Plan. For any wells which are not sampled by the MSGRG, and for which U.S. EPA believes that sampling is still warranted, U.S. EPA will attempt to gain access and collect a sample of these wells.

15. *Work Plan Section 3.3, GROUNDWATER QUALITY SAMPLING AND ANALYSIS:* Identify and sample any irrigation/industrial high capacity wells within this two-mile radius. (See comment 53 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). An example, would be any wells west of Site in the gravel pit. Incorporate this provision in the Work Plan or provide a written response indicating why this comment was not addressed in the Work Plan.

16. *Work Plan Section 3.6, Reporting:* Include any newly available well logs in the report.

17. *Work Plan Section 3.6, Reporting:* Assure that the report and data are submitted electronically (tables) as well as in the Electronic Data Delivery ("EDD") format (see comment 18 below) along with the written report.

18. *Work Plan Section 3.6, Reporting:* In 2003, by way of letter, U.S. EPA required submission of a Site electronic database and map to U.S. EPA with a specific deadline. (Comment 11 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). Based upon a subsequent discussion, it was mutually decided that U.S. EPA would first get available data from WDNR then request the remaining required information from the MSGRG. U.S. EPA has coordinated with the WDNR to get existing data from the Wisconsin GEMS system data base. However, the following information is still lacking and we request that the following information be submitted.

- It appears that we still do not know what "projection" nor the "datum" the coordinates are in. Although it appears that the coordinates are in the WI State Plane, South system, they do not map out to where they should be (based on the known location of the Site.) Further, although normally the datum are provided in the NAD 27, or NAD 83 format, that does not appear to be the case in this instance. Please check these coordinates and datum and provide the missing information. Attached is a list of all of the coordinates and the missing ones that we request be provided. Inform U.S. EPA when we will receive this information or submit it along with the revised Work Plan.

- Submit available information relative to the lithology and geologic units for the Site and surrounding area in the R5 EDD format. Refer to correspondence requiring submission of the data base or specifically Section 3.6 Geology EDD File on page 28 of the Manual relative to Electronic Data Deliverables which can be found at http://www.epa.gov/region5/superfund/edman/index.html. It would be most useful if the interpolated geological unit classification could be provided. At this point, we do not need all of the lithology for each lithologic unit. Inform U.S. EPA when we will receive this information or submit it along with the revised Work Plan.

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Additionally, as is mentioned above, any data new generated by the MSGRG shall be submitted to U.S. EPA in the EDD format along with the written report.

19. Work Plan Section 3.6 - Page 26: Replace 5th bullet with the following: Information will be provided on the source and use of groundwater and/or surface water within a 2 miles radius of the Site. Lastly, any vacant land that may be developed in the future will be discussed as part of this evaluation.

20. *General Comment:* In addition to the work contained in the Work Plan, consideration should be given to whether any of the recommendations from the Second Five Year Review can be incorporated into the Expanded Groundwater Monitoring Work Plan. Specifically, recommendations #14 and #15 should be considered for inclusion in the Work Plan. These recommendations are as follows:

- Abandonment of contaminated residential wells after wells are sampled; and

- Abandonment of deep (former manufacturing) on-site wells after the wells are sampled.

Incorporate these provisions in the Work Plan or provide a written response indicating why any such comments were not addressed.

21. *General Comment:* Within the EGWMP, add a discussion regarding what the MSGRG committed to provide in the final report following following field work completion such as:

- a description of the year 2000 water main extension and any other residential/private wells which are connected to a municipal water source and dates connected;

- a description of available well abandonment information;

- a description of any available private/residential wells down or side gradient of the Site and known uses of that well;

- a description of current available information available, an updated map and narrative which shows the current status (permanently abandoned, temporarily abandoned, out of service, in service/to be abandoned, in service/to be monitored, in service/not monitored) and location of private wells and water mains in the area. The map and table should accurately identify the distance to all nearby private (potable and non-potable), non-community (transient and non-transient) and community (municipal and other-than-municipal) water supply wells;

- a reassessment of groundwater flow conditions along with an assessment of the reasonable estimate of potential down-gradient flow paths including a recommendation for future sampling of other private wells will be provided after results of the initial two sampling rounds have been reviewed.; and

- a discussion of any vacant land that may be subject to future development along with the source and use of groundwater / surface water in the down or side gradient areas for existing or potential users.

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Attachment 1 to Approval Letter with Modifications of the EGWMP
for the Muskego Site
(Relative to Comment 18)

File: Location_ no_ coords.xls

Attachment 2 to Approval Letter with Modifications of the EGWMP
for the Muskego Site
(Relative to Comment 18)

File: Muskego_Locations.xls

RMT
Integrated
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Solutions

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September 22, 2005

Ms. Sheri Bianchin
Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Blvd.
Chicago, IL 60604

Subject: Muskego Sanitary Landfill Expanded Groundwater Monitoring Workplan and Quality Assurance Project Plan Addendum

Dear Ms. Bianchin:

On behalf of the Muskego Site Groundwater Remediation Group (MSGRG), we are enclosing five paper copies and one electronic version of the final Expanded Groundwater Monitoring Workplan (EGMWP) and the Quality Assurance Project Plan (QAPP) Addendum for the Muskego Sanitary Landfill.

We will notify the USEPA when the fieldwork start date is finally determined.

The EGMWP and QAPP Addendum include revisions to the January 30, 2004, EGMWP and QAPP proposed in MSGRG's October 22, 2004, and August 15, 2005, letters and include changes made in response to the USEPA's August 24, 2005, conditional approval letter. Responses to the USEPA's August 24, 2005, letter are enclosed.

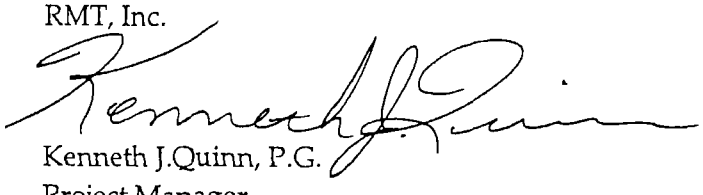
As agreed in an earlier response letter, we acknowledge that any further revisions to the QAPP must be approved by the USEPA Region 5 Regional Project Manager and a Chemist QAPP reviewer in the Field Services Section of the Region 5 Superfund Program.

Although we do not expect any changes to the EGMWP or QAPP Addendum to be necessary during fieldwork, if any changes are required as a result of field conditions encountered or other unforeseen circumstances, such changes will be submitted to the USEPA for review and approval as soon as reasonably practical prior to implementing the change.

If you have any questions regarding our responses or changes to the EGMWP or QAPP, please do not hesitate to contact us. You can reach Mr. Larry Buechel at (262) 253-8626, ext. 123 or Ken Quinn at (608) 662-5216.

Sincerely,

RMT, Inc.



Kenneth J.Quinn, P.G.
Project Manager

Attachments: Responses to USEPA's Comments
5 Copies of the EGMWP and Quality Assurance Project Plan (QAPP) Addendum
Electronic Version of the EGMWP and Quality Assurance Project Plan (QAPP) Addendum

cc: Lisa Zebovitz, MSGRG (w/encl)
Larry Buechel, MSGRG (w/encl)
James C. Delewiche, WDNR (w/encl)
Sharon Schaver, WDNR (w/o encl)
Nancy Payne, WDNR (w/o encl)
Thomas Krueger, USEPA (w/o encl)
Susan Pastor, USEPA (w/o encl)
Henry Nehls-Lowe, Wisconsin Department of Health and Family Services (w/encl)
Joseph Janczy, USEPA (w/o encl)
Scott Kloskowski, City of Muskego (w/encl)
Ted Powell, Ruekert Milke (w/o encl)
Bob Kay, USGS/USEPA (w/o encl)
Dave Wilson, USEPA (w/o encl)
Warren Layne, PhD, USEPA (w/o encl)
Paul Rohde, CH2Mhill (w/o encl)

Responses to USEPA's August 24, 2005 Comments on the Muskego Sanitary Landfill Expanded Groundwater Monitoring Workplan

1. *General Comment: Revise the EGWMP to include the draft proposals and information provided by the MSGRG contained in the correspondence dated October 22, 2004, (Responses to Comments from Warren Layne and Bob Kay), and contained in the correspondence dated August 15,2005 (Response to Comment 5, 6, 9, 10, 1 1, 12, 13, 14, 15, and 16) regarding the EGWMP. Those modifications must be incorporated in the Work Plan.*

   MSGRG Response: Revisions to the EGMWP, as described in Appendices A and B of the October 22, 2004, letter and the August 15, 2005, letter, have been incorporated into the final documents.

2. *Work Plan Section 2.3.11, Soil Vapor Intrusion: Replace the last paragraph on Page 17 with the following: "The possibility of soil vapor intrusion will be re-evaluated after the information is obtained and data analyzed the field effort proposed by this Work Plan."*

   MSGRG Response: The sentence has been added to the end of the paragraph, recognizing that the off-site data will be incorporated into the vapor intrusion assessment.

3. *Work Plan Section 3.1.1, Groundwater Monitoring Well Locations: U.S. EPA required that two (2) additional monitoring well be installed off-site (see comments 39 and 40 of U.S. EPA's correspondence dated June 2002 and October 2003 regarding the EGWMP) to address the data gaps to the south and southeast of the Site and to serve as a useful monitoring location to serve as a warning for any future down-gradient contaminant migration. U.S. EPA continues to believe these well locations will provide important information. Since the MSGRG is willing to evaluate additional wells to fill remaining data gaps completion of the work in the EGWMP; then U.S. EPA will accept installation of one additional well cluster during this phase of the work subject to evaluation for the need for additional wells locations based upon the results of the data collected under this Work Plan. The additional well cluster shall be located between the Site landfill and the area between the Vitrano and Pet Supply wells.*

   Requiring an additional well nest is justified since groundwater flow direction in the area gradient of the Sanitary Landfill is shown by the regional data to be to the south, southeast, and east, and based on the locations of wells proposed in Figure 1 of the EGWMP, it is apparent that additional data gaps exist in the area to the southeast of the Site which have not been adequately characterized. Furthermore, water-quality data indicate that contamination may be present 1) between the Vitrano and Pet Supply wells up-gradient of the Fischer and Moody wells) and 2) southeast of the Thiele and Pet Supply wells and that general area needs further characterization.

   To address the above-mentioned data gaps and to serve as an early warning location for any future down-gradient contaminant migration, install an additional well cluster southeast of

the between the Site between the Vitrano and the Pet Supply well locations. Incorporate this provision in the Work Plan and conduct the Work. Ensure that the QAPP is consistent with this section as well. Additionally, indicate that the MSGRG has agreed to evaluate the need for additional wells based upon the results of the data collected under this Work Plan.

MSGRG Response: The USEPA's objective for an additional well nest, located between the site and the area between the Vitrano and Pet Supply wells and upgradient of Fischer and Moody can be satisfied with an additional deep well installed on Hillendale Drive at the location of well number MW07 on Figure 2 of the EGMWP. This well is included in the Workplan in Subsection 3.1.1. The potential for a shallow well at the MW07 location is included in paragraph 2 of Subsection 3.1.1. The additional data collection point is included in the appropriate tables in the QAPP. The evaluation of the need for additional wells is included in the last bullet of Subsection 3.6, Reporting.

4. *Groundwater Quality Sampling While Drilling: As requested by the U.S. EPA, the MSGRG has now agreed to perform quick turn-around Volatile Organic Compound ("VOC") analyses associated with the vertical aquifer profiling. It has also been agreed that the quick turn around information will be used in selecting the screen locations of the well to be installed. Include this provision in the Work Plan. Additionally, as indicated in the August 15th correspondence, that the same analytical methods will be used for the quick turn around VOC analyses as for the routine turn around VOC analyses including all laboratory QAQC. Also, ensure that the QAPP is consistent with this section. Ensure that the QAPP is consistent with this section.*

MSGRG Response: As stated in the October 22, 2004, letter, the quick turnaround provision has been added to the Workplan and QAPP. Table A-2 of the QAPP has specified the same analytical method for the quick turnaround sampling as for the analysis of samples collected from the two rounds of sampling. Table A-1 of the QAPP has specified the detection limits for this analytical method. We have also added a statement to Subsection 3.1.4 of the Workplan to make this explicit.

5. *Work Plan Section 3.1.5; Groundwater Monitoring Well Construction: The text states that clean soil cuttings (less than 5 ppm generated during well installation will be disposed of as clean fill within the landfill property. Disposal of the cuttings as "clean fill material" should not be done without verification that this is appropriate; therefore, provide support for the contention that the 5 parts per million ("ppm") criteria that was selected is equivalent to clean cuttings. U.S. EPA also requires that along with that criteria, that the soil be free of odor and visual evidence of contamination. Additionally, provide information as to where the clean soils will be disposed of at the landfill. Ensure that the QAPP is consistent with this section of the Work Plan as well.*

MSGRG Response: The criteria "free of odor" and "visual evidence of contamination" has been added to the decision for disposal of soil cuttings. PID screening is a routine process for screening soil cuttings to determine if containment of cuttings is required. The 5 ppm criterion

allows for natural variations in background. The cuttings disposal area is specified in Subsection 3.1.5 of the EGMWP.

6. *Work Plan Section 3.1.6, Special Considerations During Drilling: Clarify the following: The depth of the screened interval for this well should be based on the results of the VOC analysis conducted as part of the vertical aquifer sampling with the understanding that the well should be placed at the location with the highest VOC detection in the lower sand-and-gravel unit. If the information from the vertical aquifer screening effort is not conclusive, then the screen placement of the deep well at well nest 3 should coincide with the screened interval of Muskego Utility Well 7 or in the closest sand unit to this interval. The decision pertaining to the depth of the final well placement should be discussed and approved in the field with U.S. EPA or their representatives prior to installation. Incorporate this provision in the Work Plan and ensure that the QAPP is consistent with this section as well.*

   MSGRG Response: As stated in Appendix A of the October 22, 2004, letter, these criteria have been added to the Workplan. In addition, we have added the criterion that "If the information from the vertical aquifer screening effort is not conclusive, then the screen placement of the deep well at well nest 3 will coincide with the screened interval of the Muskego Utility Well 7 or in the closest sand unit to this interval."

7. *Work Plan Section 3.3; GROUNDWATER QUALITY SAMPLING AND ANALYSIS: U.S. EPA required that a "full scan" VOCs, inorganics, PCBs and pesticides) be performed on the groundwater samples collected for analysis. (See comment 41 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). In the interim, U.S. EPA would accept sampling of a full suite of inorganics and VOCs (TCL) during this phase of the Work if reducing the list of parameters is justified in writing. Incorporate this provision in the Work Plan and conduct the Work. Ensure that the QAPP is consistent with this section as well.*

   MSGRG Response: The constituents of concern for this investigation are described in the EGMWP (Subsection 2.3.7), as well as in the August 15, 2005, response. This subsection demonstrates that the full suite of inorganics (TAL) are not constituents of concern. We believe that these responses satisfy your request to provide written justification for this parameter list. We have included iron and manganese as indicators of general water chemistry and, as described in the August 15, 2005, letter, have included arsenic and thallium to the proposed sampling list. These two constituents have been added to the EGMWP and QAPP.

8. *Work Plan Section 3.5; GROUNDWATER LEVEL MEASUREMENTS: As was agreed to in the August 15th correspondence, clarify in the Work Plan the water-level measurements will be performed one-two days prior each water quality sampling events. Ensure that the QAPP is consistent with this section as well.*

   MSGRG Response: This has been completed.

9. *Work Plan Section 3.6; Reporting: U.S. EPA required that the report be presented in both electronic and paper format. See also U.S. comment letters of June 2002 and October 2003 regarding the EGWMP.*

MSGRG Response: The report will be submitted in both electronic and paper format.

Quality Assurance Plan Modifications Required:

10. *QAPP: Page B-4; Section B2.2: Add the following provision to the QAPP: "the decision pertaining to the depth of the final well placement should be discussed and approved in the field with US. EPA or their representatives prior to installation."*

MSGRG Response: This statement has been added.

11. *QAPP, Section B. and B. 2: As was agreed to in the proposed Work Plan/QAPP revision dated October 22, 2004 submitted by the MSGRG, revise the plans to indicate that VAS sampling for the new deep well locations will occur in 10 feet intervals and will occur essentially continuously if proper geologic media (sand/gravel) are encountered. As was further clarified in the August 15th correspondence, revise the plans to indicate that "a 5-foot screen will be allowed if and only if a 10-foot interval proves to be unworkable in the field." Also include the following provision in the Work Plan: "The decision as to whether the 10-foot interval is unworkable shall be determined in the field and is subject to approval by US. EPA or their representatives."*

MSGRG Response: These statements have been added to the QAPP, Section B2, and to the Workplan.

12. *QAPP, Figure 1: As was agreed to in the August 15th correspondence, revise the QAPP to indicate that Lawrence Buechel is the MSGRG Project Coordinator/Manager.*

MSGRG Response: This has been completed.

Other Requirements Associated with the EGWMP that Must be Addressed

13. *a) Work Plan Section -Page 19: Replace first and second bullet with the following: Groundwater level measurements and groundwater flow directions in the upper and lower sand units which are beyond the Site boundary located in the east, south and southeast directions from the Site.*

MSGRG Response: We have replaced the first two bullets with your statement; however, we had to add "where present" to the upper sand unit because it has not been shown to be present southeast of the site.

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b) Work Plan Section 2.5.3 -Page 20: Replace third and forth bullets with the following: Groundwater level measurements and quality analyses in the upper and lower sand and gravel units which are beyond the Site boundary in the south, east and southeast directions.

MSGRG Response: We have replaced the third and fourth bullets with your statement; however, we had to add "where present" to the upper sand unit because it has not been shown to be present southeast of the site.

c) Work Plan Section 2.5.3 -Page 20: Modify the sixth fifth bullet to read as follows: "Groundwater inorganic and VOC data ..."

MSGRG Response: This has been completed.

Incorporate these provisions in the Work Plan or provide a written response indicating why any such comments were not addressed.

14. *Work Plan Section 3.3, GROUNDWATER QUALITY SAMPLING AND ANALYSIS: U.S. EPA requires that the following wells be sampled: County Park Wells, Stagecoach and Moose Lodge property wells and residential wells south and east of the landfill near the Site not sampled in the last year. (See comment 40 and 43 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). Incorporate this provision in the Work Plan or provide a written response indicating why this comment was not addressed in the Work Plan. For any wells which are not sampled by the MSGRG, and for which U.S. EPA believes that sampling is still warranted, U.S. EPA will attempt to gain access and collect a sample of these wells.*

MSGRG Response: The county park wells are not considered to be viable or useful sampling points because the southern well is a hand-pump well not appropriate for sampling and analysis for low-level VOCs and the northern well is too far north to be appropriate for sampling in relation to the site. The EGMWP proposes sampling wells E135A, E135B, and E137 in place of sampling the monitoring wells installed at the Moose Lodge (PZ Moose) and the Stagecoach Inn (PZ Stagecoach). The justification for sampling these wells is described in the EGMWP, Subsection 2.3.9.1, and is repeated below.

Table 6 (of the EGMWP), which contains some unverified data from other sources and presents results of VOC analyses at these wells (PZ Moose and PZ Stagecoach) during drilling and after well installation, also compares the depths of these wells, the geologic unit screened, and the VOC results of these wells with on-site monitoring wells. VOC results from these wells are included in Appendix E (of the EGMWP).

Wells E135A and E135B are located approximately 100 ft north and somewhat east of PZ Moose (See RI Drawing 13527-D10 in Appendix A of this Workplan and on Figure 1). This location is somewhat more directly downgradient of the Old Fill Area. The depth and geologic unit screened by these wells are shown to be very similar (see Table 6 of the EGMWP). The water quality results are also shown to be generally similar. Chlorinated ethenes are shown to be the predominant VOCs at each of these three wells. They are also at

very similar concentrations (cis-1,2-DCE ranges from 1.4 µg/L to 4.5 µg/L at these wells). Vinyl chloride concentrations at E135A and B are slightly lower than at PZ Moose. Well nest E135 has detectable TCE (0.4 µg/L to 0.5 µg/L), whereas TCE at PZ Moose was ND in the sample collected from the completed well.

Well nest E137 is located approximately 800 feet west of PZ Stagecoach and within the same geologic unit (Lower Sand Unit) at about the same elevations (see Table 6). Water quality results from these wells are shown on Table 6 to be very similar. This includes vinyl chloride (ND to 2 µg/L in each well) and cis-1,2-DCE (1 to 6 µg/L in each well). Wells E137A and E137B may be considered to have very slightly higher concentrations because these wells have had detectable TCE; 1,2-DCA; and 1,1-DCE; whereas at PZ Stagecoach, these constituents were not detected.

In summary, on-site well nests E135 and E137 are screened within the same geologic unit, at about the same elevation, and in generally the same area as PZ Moose and PZ Stagecoach. Therefore, well nests E135 and E137 provide the same data as PZ Moose and PZ Stagecoach and are included in this Workplan rather than the PZ Moose and PZ Stagecoach wells.

Only two residential wells are known not to have been sampled within the last year that are present south and east of the landfill within the distance agreed with the USEPA for our survey of private wells (*i.e.*, the distance from the site to Henneberry Road in a downgradient direction). These are the Spitzner wells located on Woods Road. MSGRG requested access to sample these wells in December 2004, but access was refused.

The wells proposed to be sampled are included in the final Workplan.

15. *Work Plan Section 3.3, GROUNDWATER QUALITY SAMPLING AND ANALYSIS: Identify and sample any irrigation/industrial high capacity wells within this two-mile radius. (See comment 53 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). An example, would be any wells west of Site in the gravel pit. Incorporate this provision in the Work Plan or provide a written response indicating why this comment was not addressed in the Work Plan.*

MSGRG Response: As previously agreed to with the USEPA and described in Subsection 3.6 of the EGMWP, the source and use of groundwater and/or surface water will be surveyed within a radius equal to the distance between the site and Henneberry Road in a downgradient direction of the site based on the regional water table map in Appendix C of the EGMWP. This survey will extend to all the residences located on the southern side of Henneberry Road.

The only high-capacity well known to be located within the site vicinity is the deep industrial well on-site that is sealed below the shale into the sandstone aquifer. Sampling this well would not provide useful information. In addition, Payne and Dolan reported that they do not have a high-capacity well in the sand and gravel pit west of the site. Therefore, no additional wells are added to the Workplan based on this comment.

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16. *Work Plan Section 3.6, Reporting: Include any newly available well logs in the report.*

MSGRG Response: This was already included in the January 2004 EGMWP, Subsection 3.6, second paragraph, which states "This report will also include tables, drawings, (including revised geologic cross sections and potentiometric surface maps), and appendices of laboratory data, boring logs, well construction and development forms, water levels, etc."

17. *Work Plan Section 3.6, Reporting: Assure that the report and data are submitted electronically (tables) as well as in the Electronic Data Delivery ("EDD") format (see comment 18 below) along with the written report.*

MSGRG Response: The report will be submitted electronically and in the EDD format.

18. *Work Plan Section 3.6, Reporting: In 2003, by way of letter, U.S. EPA required submission of a Site electronic database and map to U.S. EPA with a specific deadline. (Comment 11 of U.S. EPA correspondence dated June 2002 and October 2003 regarding the EGWMP). Based upon a subsequent discussion, it was mutually decided that U.S. EPA would first get available data from WDNR then request the remaining required information from the MSGRG. U.S. EPA has coordinated with the WDNR to get existing data from the Wisconsin GEMS system data base. However, the following information is still lacking and we request that the following information be submitted.*

- *It appears that we still do not know what "projection" nor the "datum" the coordinates are in. Although it appears that the coordinates are in the State Plane, South system, they do not map out to where they should be (based on the known location of the Site.) Further, although normally the datum are provided in the NAD 27, or NAD 83 format, that does not appear to be the case in this instance. Please check these coordinates and datum and provide the missing information. Attached is a list of all of the coordinates and the missing ones that we request be provided. Inform U.S. EPA when we will receive this information or submit it along with the revised Work Plan.*

- *Submit available information relative to the lithology and geologic units for the Site and surrounding area in the R5 EDD format. Refer to correspondence requiring submission of the data base or specifically Section 3.6 Geology EDD File on page 28 of the Manual relative to Electronic Data Deliverables which can be found at http://www.epa.gov/region5/superfund/edman/index.html. It would be most useful if the interpolated geological unit classification could be provided. At this point, we do not need all of the lithology for each lithologic unit. Inform U.S. EPA when we will receive this information or submit it along with the revised Work Plan.*

  Additionally, as is mentioned above, any data new generated by the MSGRG shall be submitted to U.S. EPA in the EDD format along with the written report.

MSGRG Response: The requested data will be submitted with the report described in Subsection 3.6 of the EGWMP.

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19. *Work Plan Section 3.6 -Page 26: Replace 5th bullet with the following: Information will be provided on the source and use of groundwater and/or surface water within a 2 miles radius of the Site. Lastly, any vacant land that may be developed in the future will be discussed as part of this evaluation.*

MSGRG Response: The area of the private water supply use survey included in the January 2004 EGMWP was agreed upon with the USEPA several years ago and was incorporated into that draft of the Workplan. This includes any vacant land being included in this evaluation. Therefore, MSGRG does not believe that any changes are needed pursuant to this comment.

20. *General Comment: In addition to the work contained in the Work Plan, consideration should be given to whether any of the recommendations from the Second Five Year Review can be incorporated into the Expanded Groundwater Monitoring Work Plan. Specifically, recommendations #14 and #15 should be considered for inclusion in the Work Plan. These recommendations are as follows:*

- *Abandonment of contaminated residential wells after wells are sampled; and*
- *Abandonment of deep (former manufacturing) on-site wells after the wells are sampled.*

Incorporate these provisions in the Work Plan or provide a written response indicating why any such comments were not addressed.

MSGRG Response: As discussed in the MSGRG August 15, 2005, letter, MSGRG does not have the authority to abandon residential wells against the residents' wishes, but will offer well abandonments again and document our "best efforts" to have those wells abandoned. MSGRG also requests that the decision whether to abandon the deep (former manufacturing) on-site well be made separate from the EGMWP. This well is sealed through the Maquoketa Shale, a regional confining layer, and is open in the deep sandstone aquifer. Therefore, sampling this well would not provide useful information. As a result, the status of this well is not an issue for the EGMWP and should be discussed separately.

21. *General Comment: Within the EGWMP, add a discussion regarding what the MSGRG committed to provide in the final report following field work completion such as:*

- *a description of the year 2000 water main extension and any other residential/private wells which are connected to a municipal water source and dates connected;*
- *a description of available well abandonment information;*
- *a description of any available private/residential wells down or side gradient of the Site and known uses of that well;*
- *a description of current available information available, an updated map and narrative which shows the current status (permanently abandoned, temporarily*

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abandoned, out of service, in service to be abandoned, in service to be monitored, in service not monitored) and location of private wells and water mains in the area. The map and table should accurately identify the distance to all nearby private (potable and non-potable), non-community (transient and transient) and community (municipal and other-than-municipal) water supply wells;

- *a reassessment of groundwater flow conditions along with an assessment of the reasonable estimate of potential down-gradient flow paths including a recommendation for future sampling of other private wells will be provided after results of the initial two sampling rounds have been reviewed.; and*

- *a discussion of any vacant land that may be subject to development along with the source and use of groundwater/surface water in the down or side gradient areas for existing or potential users.*

MSGRG Response: These requests are already included in the January 2004 EGMWP, with the exception of the location of water mains in the area. This has been added to Subsection 3.6, Reporting.

From: <Bianchin.Sheri@epamail.epa.gov>
To: Kenneth Quinn <Kenneth.Quinn@rmtinc.com>
Date: 2/24/2006 10:16:25 AM
Subject: Fw: Field Summary wk beginning Jan 30

Hi Ken,

In the above- mentioned report, you wrote:

"The Work Plan specifies that the drilling below the shallow sand at location MW01 requires placement of a permanent casing through the shallow sand. The purpose of the casing was to seal off potential constituents of concern that may be present in the shallow sand from deeper zones. However, since COCs have been detected below the shallow sand in samples collected while drilling MW01B, the permanent casing through the shallow sand provides no value at this location. In addition, the rotasonic drill rig will have temporary casing installed through the sand continuously until the casing is being pulled back as the well is being built. The grout in well MW01A will then permanently seal off the shallow sand.

Based on this additional information, not available when preparing the Work Plan, we request a modification to the Work Plan to not install permanent casing through the shallow sand for installation of well MW01A to a depth of 128 ft bgs to 138 ft bgs.

U.S. EPA hereby approves the requested modification if you adequately address the concerns raised by Bob Kay in the e-mail message below. Please address these concerns prior to implementation of the modification.
Also, be sure to note this modification in the final report.

Thanks
Sheri

Sheri L. Bianchin
Remedial Project Manager
Institutional Controls Coordinator
U.S. EPA- Region 5
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604
312-886-4745

----- Forwarded by SHERI BIANCHIN/R5/USEPA/US on 02/24/2006 09:09 AM -----

Bob Kay/R5/USEPA/US
02/09/2006 02:45 PM

To: SHERI BIANCHIN/R5/USEPA/US@EPA
cc:

Subject: Re: Fw: Field Summary wk beginning Jan 30(Document link:

SHERI BIANCHIN)

I don't have a particular problem with not putting in a permanent casing through the shallow sand when MW01B is installed providing the temporary casing is used, the well is properly grouted, and that well construction be done fairly quickly so as not to allow a lot of time for the vertical flow of water to occur. this would mean something like an hour elapsing between the time the drill bit gets to the bottom of the well completion interval and the beginning of the process of pulling the temprorary casing up and grouting the well.

Somewhat pickly point, but the purpose of the casing is not only to prevent contaminated shallow water from entering clean deeper deposits, it's to prevent clean shallow water from entering contaminated deeper deposits. care should be taken to adequately develop this well.

CC: <kay.bob@epamail.epa.gov>, Jan Kucher <Jan.Kucher@rmtinc.com>, "Delwiche, Jim C" <Jim.Delwiche@dnr.state.wi.us>, Larry Buechel <lbuechel@wm.com>, Lisa Zebovitz <LZebovitz@ngelaw.com>, Nate Keller <Nate.Keller@rmtinc.com>, "Nehls-Lowe, Henry" <NEHLSHL@dhfs.state.wi.us>, Paul Rohde <prohde@ch2m.com>, Scott Kloskowski <skloskowski@ci.muskego.wi.us>, <Krueger.Thomas@epamail.epa.gov>, Ted Powell <tpowell@ruekert-mielke.com>, "Schaver, Sharon L" <Sharon.Schaver@dnr.state.wi.us>, <Jewelle.Keiser@ch2m.com>, <tschult2@ch2m.com>

From: <Bianchin.Sheri@epamail.epa.gov>
To: Kenneth Quinn <Kenneth.Quinn@rmtinc.com>
Date: 3/8/2006 6:43:51 AM
Subject: Re: Meeting to Discuss Muskego Expanded Groundwater Plan Field Work

Hi Ken,

We thank you for the opportunity to meet last week to discuss the on-going work associated with the expanded groundwater monitoring plan.

U.S. EPA hereby approves the proposal to modify the approved workplan by modifying the requirement to drill and place a deep well at the MW-2 location (i.e., MW2A). Therefore, MW2A will not be required. Although this well might provide additional data, it is not critical for this investigation/ effort. First, this well is upgradient to side-gradient and, therefore, will not provide information regarding the pathway of concern. In addition, the deeper well is not necessary in terms of monitoring the aquifer zone of concern where contaminants may potentially migrate to downgradient wells. As was suggested by the representatives of the MSGRG group, and is inherent in the approved workplan, once additional information is obtained, EPA will determine what, if any, additional data gaps are evident and require collection of additional necessary information. This will be done after the following steps: 1) once the pump tests are completed and 2) once the cross sections are updated and sampling results from the additional wells are available.
EPA will continue to collaberate with the interested parties and the MSGRG in making these decisions. We thank you for the continuing dialogue and cooperation in conducting this iterative work to achieve our mutual goals.

Also, on behalf of the City of Muskego, Ted Powell of Ruekert Mielke (consultant for the City of Muskego) committed to inform us whether the approved well locations for the pump tests are adequate in light of the additional information received during this field effort.

Please contact Bob Kay, Paul Rhode, CH2MHill (EPA's contractor), or myself with any other questions. Thanks again and have a nice vacation.

Sheri

Sheri L. Bianchin
Remedial Project Manager
Institutional Controls Coordinator
U.S. EPA- Region 5
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604
312-886-4745

CC: <Bianchin.Sheri@epamail.epa.gov>, Jan Kucher <Jan.Kucher@rmtinc.com>, Jim Delwiche <jim.delwiche@dnr.state.wi.us>, Jewelle Keiser <jkeiser1@ch2m.com>, Larry Buechel

<lbuechel@wm.com>, Lisa Zebovitz <LZebovitz@ngelaw.com>, Nancy Payne <nancy.payne@dnr.state.wi.us>, Nate Keller <Nate.Keller@rmtinc.com>, Henry Nehls-Lowe <nehLshL@dhfs.state.wi.us>, Paul Rohde <prohde@ch2m.com>, Sharon Shaver <schavs@dnr.state.wi.us>, Scott Kloskowski <skloskowski@ci.muskego.wi.us>, Sean McMullen <smcmullen@ci.muskego.wi.us>, <Krueger.Thomas@epamail.epa.gov>, Ted Powell <tpowell@ruekert-mielke.com>, Tory Shultz <tshult2@ch2m.com>

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April 17, 2006

Ms. Sheri Bianchin
Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Blvd.
Chicago, IL 60604

Subject: Muskego Sanitary Landfill Quality Assurance Project Plan (QAPP) Addendum No. 2

Dear Ms. Bianchin:

On behalf of the Muskego Site Groundwater Remediation Group (MSGRG), we are enclosing five paper copies and one electronic version of the Quality Assurance Project Plan (QAPP) Addendum No. 2 for the Muskego Sanitary Landfill.

The QAPP Addendum covers the addition of Target Analyte List (TAL) metals and Total Organic Carbon (TOC) for groundwater analysis. The addition of TAL metals eliminates the need to analyze for calcium, iron, manganese, magnesium, arsenic, and thallium separately. Methods used for these metals remain the same except for arsenic which will be analyzed by USEPA Method 6020. Pages that have changed since the original September 2005 QAPP are attached and the specific changes in the text are highlighted. Changes to tables are not highlighted. Addition of these constituents requires no revisions to the sampling protocols or field procedures, except as noted in the tables (i.e., bottle and preservative needs). TOC will be analyzed using USEPA Method 415.1 and 9060. The following TAL metals will be analyzed using USEPA Methods 6010B, 6020, and 7471A (the samples will not be filtered):

- Aluminum
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Vanadium
- Zinc

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As agreed to in an earlier response letter, we acknowledge that these revisions to the QAPP must be approved by the USEPA Region 5 Regional Project Manager and by a Chemist QAPP reviewer in the Field Services Section of the Region 5 Superfund Program.

Although we do not expect any changes to the Expanded Groundwater Monitoring Workplan (EGMWP) or QAPP Addendum to be necessary during fieldwork, if changes are required as a result of field conditions encountered or other unforeseen circumstances, such changes will be submitted to the USEPA for review and approval as soon as reasonably practical prior to implementing the change.

If you have any questions regarding changes to the QAPP, please do not hesitate to contact us. You can reach Mr. Larry Buechel at (262) 253-8626, ext. 123, or Ken Quinn and Jan Kucher at (608) 831-4444.

Sincerely,

RMT, Inc.

Jan C. Kucher, P.E.
Senior Engineer

Kenneth J. Quinn, P.G.
Project Manager

Attachments: Quality Assurance Project Plan (QAPP) Addendum Page Changes (A-11, A-15, A-20, A-26, B-2, B-16, Tables A-1, A-2, A-3, A- 4, and A-5)
Electronic Version of the Quality Assurance Project Plan (QAPP) Addendum
STL Laboratory SOPs for the TAL
STL Laboratory SOP for TOC

cc: Lisa Zebovitz, MSGRG (w/encl)
Larry Buechel, MSGRG (w/encl)
James C. Delewiche, WDNR (w/encl)
Sharon Schaver, WDNR (w/o encl)
Nancy Payne, WDNR (w/o encl)
Thomas Krueger, USEPA (w/o encl)
Susan Pastor, USEPA (w/o encl)
Henry Nehls-Lowe, Wisconsin Department of Health and Family Services (w/encl)
Joseph Janczy, USEPA (w/o encl)
Scott Kloskowski, City of Muskego (w/encl)
Ted Powell, Ruekert Milke (w/o encl)
Bob Kay, USGS/USEPA (w/o encl)
Dave Wilson, USEPA (w/o encl)
Warren Layne, Ph.D., USEPA (w/o encl)
Paul Rohde, CH2MHill (w/o encl)

QAPP Page Changes

A4 Project/Task Organization

This Quality Assurance Project Plan (QAPP) Addendum has been prepared on behalf of the MSGRG by RMT, Inc. (RMT). The purpose of the expanded groundwater monitoring is to evaluate groundwater flow direction and groundwater quality in the vicinity of the site. Sample collection and analysis associated with the expanded groundwater monitoring includes the following:

- Groundwater sampling at ~~thirteen~~ twenty wells, including the City of Muskego Municipal Well #7, for volatile organic compounds (VOCs), nitrate-nitrogen, ammonia-nitrogen, total Kjeldahl nitrogen (TKN), alkalinity, chloride, and sulfate (indicators), ~~and arsenic, iron, manganese, calcium, thallium, and magnesium (metals)~~ total organic carbon (TOC), and for the Target Analyte List (TAL). Field parameters include dissolved oxygen (DO), oxidation/reduction potential (redox), turbidity, pH, temperature, and conductivity.

- Groundwater sampling during drilling at seven locations for VOCs and conductivity.

- Soil analysis from monitoring well installation for fractional organic carbon (FOC).

This work is being performed at the request of USEPA in a January 2, 2001, letter. The project organizational structure is provided on Figure 1.

A4.1 Project Management

The Project Management Team includes:

A4.1.1 MSGRG

- Project Manager (PM) – Larry Buechel

MSGRG PM. The PM has overall responsibility for ensuring that the project meets objectives and quality standards.

A4.1.2 RMT

- Project Manager – Ken Quinn
- Field Team Leaders – Meredith Westover and Nate Keller
- Project Chemist – Greg Graf
- Health and Safety Coordinator – John Hanson

A4.2.2 Groundwater Sampling

RMT

The field personnel conducting groundwater sampling have the following responsibilities:

- Collecting water level measurements, and purging and sampling groundwater from monitoring wells (MW01, MW01A, MW01B, MW02, ~~MW02A,~~ MW03, MW03A, MW04, MW04A, MW05, MW06, MW07, E135A and B, E137A and B, E93D, and P64C), former private wells, Seybold and Thiele, and City of Muskego Municipal well #7 (CW-7). Refer to Figure 2 of the Work Plan for well locations.
- Collecting groundwater samples in the appropriately labeled and preserved sample containers.
- Maintaining samples on ice.
- Completing a COC form for all samples collected.
- Completing and maintaining a sample collection log.
- Packing the samples in a cooler with sufficient ice for overnight shipment to the laboratory.
- Notifying the laboratory of the sample shipment.
- Faxing a copy of the COC daily to the Project Chemist.

A4.2.3 Laboratory Responsibilities

Samples will be analyzed by a State of Wisconsin certified laboratory. Soils will be analyzed for FOC. Groundwater will be analyzed for VOCs, nitrate, ammonia, TKN, ~~iron, manganese, calcium, magnesium, arsenic, thallium,~~ alkalinity, sulfate, the TAL, TOC, and chloride. Analyses will be performed by either of the following laboratories:

Severn Trent Laboratory (STL), Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228
Phone: (716) 691-2600
Fax: (716) 691-7991
Contact: Candace Fox

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- VOCs by USEPA SW-846 Method 8260B
- Drinking water VOCs by EPA Method 524.2 (Municipal Well #7)
- ~~Calcium, iron, manganese, and magnesium by USEPA SW-846 Method 6010B~~
- ~~Arsenic by EPA SW-846 Method 7060A~~
- ~~Thallium by EPA SW-846 Method 6020~~
- Alkalinity by EPA Method 310.1/310.2
- Chloride, sulfate, and nitrate by EPA 300.0
- TKN by EPA Method 351.2
- Ammonia by EPA Method 350.2
- Target Analyte List (TAL) by Methods 6010B, 6020, 7471A, 7470, and 335
- TOC by EPA Method 415.1/9060
- Field parameters: pH, temperature, DO, redox potential, conductivity, and water levels

Refer to Table A-1 for compound lists and required reporting limits. Table A-2 is a summary of sample numbers, parameters, QA sample numbers, and laboratories. Refer to Table A-3 for a summary of required sample containers, holding time requirements, and shipping instructions. Refer to Table A-4 for laboratory sampling handling requirements.

A6.1 Schedule

Monitoring well installation, soil sampling, and groundwater sampling will begin in 2005. Refer to the Work Plan for the project schedule.

A7 Quality Objectives and Criteria

The USEPA seven-step Data Quality Objectives (DQO) process was utilized in assessing data quality objectives for sampling at the Muskego Site.

A7.1 Data Quality Objectives

DQOs have been established for data collection activities at the Muskego Site.

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Deadlines
The fieldwork is scheduled to begin in 2005. Groundwater sample collection from the existing wells and analysis will begin after completing installation of the additional wells. Groundwater will be collected from the wells in Table 8 of the Work Plan during two sampling rounds. Laboratory analysis will be completed within 4 weeks of sample collection. Refer to the Work Plan for the project schedule.

2. Identify the Decision

Principal Study Question: Do the VOC concentrations in groundwater south and east of the Muskego Sanitary Landfill attain or exceed the USEPA Maximum Contaminant Level (MCL), the State of Wisconsin NR 140 Enforcement Standard (ES), and/or Preventive Action Limit (PAL)? Note that for constituents with a PAL of less than a detection limit, NR 140 sets the PAL at the Limit of Quantitation. Metals and indicator parameters will be evaluated for natural attenuation properties.

Alternative Actions: Potential actions include no further action, continued sampling and analysis, and/or additional well installation.

3. Identify Inputs to the Decision

Inputs:

- Laboratory analysis of groundwater samples
- MCL, ES, and PAL values
- Interpretation of hydrogeological conditions

Identify Information Required to Resolve the Decision:
Groundwater samples will be analyzed for VOCs, nitrate, TKN, ammonia, sulfate, chloride, alkalinity, ~~arsenic, calcium, iron, manganese, magnesium, and thallium,~~ TOC, and the TAL; and the results will be compared with applicable USEPA MCLs and State of Wisconsin ESs and PALs.

Identify Information to Establish an Action:
If sample results attain or exceed the regulatory limits or the vertical screening results indicate other potential migration routes, additional monitoring may be required.

Confirm Appropriate Methodology Required to Determine Action Levels: Analytical analysis of groundwater will be performed using SW846 approved methods and laboratory SOPs (Attachment A). In addition, the analytical laboratories are certified for the analyses by the State of Wisconsin.

4. Define the Study Boundaries

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B1.2.1 Laboratory Analysis

Groundwater samples collected while drilling will be analyzed for the following:

- VOCs by SW-846 Method 8260B
- Field parameters (conductivity, pH, temperature, DO, redox potential, and turbidity)

Refer to Table A-1 for parameter lists and MRLs. Refer to Table A-2 for sample numbers, parameters, and QC samples to be collected. Refer to Table A-3 for sample preservation, container, holding time, and shipping requirements. Refer to Table A-4 for a summary of analytical methods. Refer to Table A-5 for method-specific quality objectives. Note that the VOC analysis method is the same method specified in Section B.1.3 Groundwater Sampling.

B1.3 Groundwater Sampling

Upon completion of well installation, the 10 newly installed monitoring wells, the six existing monitoring wells, the two former private wells, and Muskego Municipal Well #7 will be sampled at the Muskego Site. These wells will be sampled during two rounds. The groundwater sampling procedures are discussed in Section B.2.3 of the QAPP.

B1.3.1 Laboratory Analysis

Groundwater samples collected will be analyzed for the following:

- VOCs by USEPA Method 524.2 (Municipal Well #7)
- VOCs by SW-846 Method 8260B
  ~~·Metals (iron, calcium, manganese, magnesium) by SW-846 Method 6010B~~
  ~~·Arsenic by SW-846 Method 7060A~~
  ~~·Thallium by SW-846 Method 6020~~
- Alkalinity by Method 310.1/310.2
- TKN by Method 351.2
- Ammonia by Method 350.2
- Chloride, nitrate, and sulfate by Method 300.0
- The TAL by Methods 6010B, 6020, 7471A, 7470, and 335
- TOC by Method 415.1/9060

Refer to Table A-1 for parameter lists and MRLs for VOCs by Method 8260B and Table A-1A for VOCs by Method 524.2 for Drinking Water. Refer to Table A-2 for sample numbers, parameters, and QC samples to be collected. Refer to Table A-3 for sample preservation, container, holding time, and shipping requirements. Refer to Table A-4 for a summary of analytical methods. Refer to Table A-5 for method-specific quality objectives.

B4 Analytical Results

This sampling and analysis program will include analysis of the following:

- Soil samples for FOC analysis
- Groundwater samples collected during well drilling for VOC analysis, DO, redox potential, pH, temperature, turbidity, and conductivity
- Groundwater samples collected from wells for VOCs, the TAL, TOC, indicator parameters, dissolved oxygen, redox potential, pH, temperature, turbidity, and conductivity

The following laboratories will provide analytical analysis for the project:

- STL located in Buffalo, New York, will perform soil sample analysis for fractional organic carbon and groundwater analysis for VOCs, metals, and indicators.
- CT located in Baraboo, Wisconsin, will perform groundwater analysis for safe drinking water VOCs. However, if STL's MDLs do not meet the project requirements, CT will be used to perform VOC, metals, and indicator analyses from monitoring wells.

B4.1 Chemical Analysis Procedures

The chemical analyses to be performed for soil and groundwater include the following:

- VOCs by USEPA Method 524.2 (Municipal Well #7)
- VOCs by USEPA SW-846 Method 5030/8260B
- ~~Iron, manganese, magnesium, and calcium by USEPA SW-846 Method 3010A/6010B~~
- ~~Arsenic by SW-846 Method 7060A~~
- ~~Thallium by SW-846 Method 6020~~
- Ammonia by USEPA Method 350.2
- TKN by USEPA Method 351.2
- Alkalinity by USEPA Method 310.1/310.2
- Chloride, sulfate, and nitrate by USEPA Method 300.0
- The TAL by USEPA Methods 6010B/6020/7471A/7470/335
- TOC by USEPA Method 415.1/9060

Table A-1 Revised (April 2006)
Summary of Compounds ARARs, MDLs, and MRLS
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	CT WATER MRL	CT LABORATORY MDL	STL WATER MRL	STL LABORATORY MDL	USEPA MCL	STATE OF WISCONSIN NR 140 GROUNDWATER QUALITY STANDARDS	
						ES	PAL
Volatiles (µg/L)							
Chloromethane	0.17	0.05	1.0	0.4	NS	3	0.3
Bromomethane	0.22	0.06	1.0	0.5	NS	10	1
Vinyl Chloride	0.32	0.01	1.0	0.6	2.0	0.2	0.02
Chloroethane	0.17	0.05	1.0	0.5	NS	400	80
Methylene Chloride	0.1	0.03	1.0	0.4	5.0	5	0.5
Acetone	5.2	1.6	5	2	NS	1,000	200
Carbon Disulfide	0.34	0.1	1.0	0.2	NS	1,000	200
1,1-Dichloroethene	0.15	0.05	1.0	0.2	7.0	7	0.7
1,1-Dichloroethane	0.15	0.05	1.0	0.4	NS	850	85
1,2-Dichloroethene (cis)	0.12	0.04	1.0	0.3	70	70	7
1,2-Dichloroethene (trans)	0.16	0.05	1.0	0.3	100	100	20
Chloroform	0.15	0.04	1.0	0.3	100	6	0.6
1,2-Dichloroethane	0.14	0.04	1.0	0.4	5.0	5	0.5
2-Butanone	1.2	0.4	5	3	NS	460	90
1,1,1-Trichloroethane	0.13	0.04	1.0	0.3	200	200	40
Carbon tetrachloride	0.13	0.04	1.0	0.2	5.0	5	0.5
Dibromomethane	0.15	0.05	1.0	0.3	NS	NS	NS
Dichlorodifluoromethane	0.12	0.04	1.0	0.5	NS	1,000	200
Bromodichloromethane	0.12	0.04	1.0	0.3	100	0.6	0.06

VS

Table A-1 Revised (April 2006) (continued)
Summary of Compounds ARARs, MDLs, and MRLS
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	CT WATER MRL	CT LABORATORY MDL	STL WATER MRL	STL LABORATORY MDL	USEPA MCL	STATE OF WISCONSIN NR 140 GROUNDWATER QUALITY STANDARDS	
						ES	PAL
1,2-Dichloropropane	0.13	0.04	1.0	0.3	5.0	5	0.5
cis-1,3-Dichloropropene	0.024	0.008	1.0	0.3	NS	0.2	0.02
Trichloroethene	0.11	0.03	1.0	0.3	5.0	5	0.5
Dibromochloromethane	0.11	0.03	1.0	0.3	100	60	6
1,1,2-Trichloroethane	0.11	0.03	1.0	0.5	5.0	5	0.5
Benzene	0.14	0.04	1.0	0.3	5.0	5	0.5
trans-1,3-Dichloropropene	0.032	0.01	1.0	0.4	NS	0.2	0.02
Bromoform	0.12	0.03	1.0	0.4	100	4.4	0.44
4-Methyl-2-pentanone	1.2	0.4	5	2	NS	500	50
2-Hexanone	1	0.3	5	2	NS	NS	NS
Tetrachloroethene	0.14	0.04	1.0	0.3	5.0	5	0.5
Toluene	0.11	0.03	1.0	0.4	1,000	343	68.6
1,1,2,2-Tetrachloroethane	0.057	0.018	1.0	0.4	NS	0.2	0.02
Chlorobenzene	0.11	0.03	1.0	0.2	100	100	20
Ethyl benzene	0.13	0.04	1.0	0.3	700	700	140
Styrene	0.14	0.04	1.0	0.4	100	100	10
Xylenes (m&p)	0.25	0.08	2.0	0.6	10,000	640[(2)]	124[(2)]
Xylenes (o)	0.15	0.04	1.0	0.4	10,000	640[(2)]	124[(2)]
Vinyl acetate	1.3	0.04	5.0	1.7	NS	NS	NS
Trichlorofluoromethane	0.11	0.03	1.0	0.4	NS	NS	NS

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Table A-1 Revised (April 2006) (continued)
Summary of Compounds ARARs, MDLs, and MRLS
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	CT WATER MRL	CT LABORATORY MDL	STL WATER MRL	STL LABORATORY MDL	USEPA MCL	STATE OF WISCONSIN NR 140 GROUNDWATER QUALITY STANDARDS	
						ES	PAL
1,3,5-trimethylbenzene	0.14	0.04	1.0	0.2	NS	480[1]	96[1]
1,2,4-trimethylbenzene	0.14	0.04	1.0	0.2	NS	480[1]	96[1]
1,3-dichlorobenzene	0.12	0.04	1.0	0.2	NS	1250	125
1,4-dichlorobenzene	0.13	0.04	1.0	0.2	75	75	15
1,2-dichlorobenzene	0.12	0.04	1.0	0.2	600	600	60
1,2,4-trichlorobenzene	0.16	0.05	1.0	0.5	70	70	14
Hexachlorobutadiene	0.14	0.04	1.0	0.2	NS	NS	NS
1,2-dibromoethane	0.058	0.018	1.0	0.3	NS	0.05	0.005
1,2-dibromo-3-chloropropane	0.14	0.04	1.0	0.9	NS	0.2	0.02
Methyl-tert-butyl ether	0.13	0.04	1.0	0.4	NS	60	12
1,1,1,2-tetrachloroethane	0.11	0.03	1.0	0.2	NS	70	7
Metals (mg/L)							
Aluminum	N/A	N/A	0.2	0.025	NS	NS	NS
Antimony	N/A	N/A	0.001	0.00027	0.006	0.006	0.0012
Arsenic	N/A	N/A	0.001	0.00028	0.05	0.05	0.005
Barium	N/A	N/A	0.002	0.00017	2	2	0.4
Beryllium	N/A	N/A	0.0007	0.00008	0.004	0.004	0.0004
Cadmium	N/A	N/A	0.0005	0.00005	0.005	0.005	0.0005
Calcium	N/A	N/A	0.5	0.0213	NS	NS	NS
Chromium	N/A	N/A	0.004	0.00044	0.1	0.1	0.01

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Table A-1 Revised (April 2006) (continued)
Summary of Compounds ARARs, MDLs, and MRLS
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	CT WATER MRL	CT LABORATORY MDL	STL WATER MRL	STL LABORATORY MDL	USEPA MCL	STATE OF WISCONSIN NR 140 GROUNDWATER QUALITY STANDARDS	
						ES	PAL
Cobalt	N/A	N/A	0.004	0.00079	NS	0.04	0.008
Copper	N/A	N/A	0.01	0.00083	1	1.3	0.13
Iron	N/A	N/A	0.05	0.017	0.3	0.3	0.15
Lead	N/A	N/A	0.001	0.0001	0.015	0.015	0.0015
Magnesium	N/A	N/A	0.02	0.0072	NS	NS	NS
Manganese	N/A	N/A	0.003	0.00016	0.05	0.05	0.025
Mercury	N/A	N/A	0.0002	0.00015	0.002	0.002	0.0002
Nickel	N/A	N/A	0.01	0.0014	0.1	0.1	0.02
Potassium	N/A	N/A	0.5	0.024	NS	NS	NS
Selenium	N/A	N/A	0.015	0.0061	50	0.05	0.01
Silver	N/A	N/A	0.003	0.0009	0.1	0.05	0.01
Sodium	N/A	N/A	1	0.339	NS	NS	NS
Thallium	N/A	N/A	0.0002	0.00008	0.002	0.002	0.0004
Vanadium	N/A	N/A	0.005	0.00098	NS	0.03	0.006
Zinc	N/A	N/A	0.01	0.0036	5	5	2.5
Cyanide	N/A	N/A	0.01	0.004	0.2	0.24	0.04
Indicators (mg/L)							
Alkalinity	15	4.6	5	1.88	NS	NS	NS
Chloride	1.73	0.52	0.5	0.3	250	250	125
Nitrate	0.21	0.06	0.05	0.026	10	10	2

Table A-1 Revised (April 2006) (continued)
Summary of Compounds ARARs, MDLs, and MRLS
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	CT WATER MRL	CT LABORATORY MDL	STL WATER MRL	STL LABORATORY MDL	USEPA MCL	STATE OF WISCONSIN NR 140 GROUNDWATER QUALITY STANDARDS	
						ES	PAL
Ammonia	0.31	0.1	0.02	0.009	NS	NS	NS
Total Kjeldahl nitrogen	1.01	0.3	0.1	0.077	NS	NS	NS
Sulfate	2.47	0.74	2	0.699	250	250	125
Total organic carbon (soil) (mg/kg)	NA	NA	50	NA	NA	NA	NA
Total organic carbon (water) (mg/L)	NA	NA	1	0.42	NA	NA	NA

Notes:

1. Bolded compounds reporting limits do not meet the NR 140 ES value.
2. NS = no standard established.
3. mg/L = milligrams per liter.
4. µg/L = micrograms per liter.
5. mg/L = milligram per liter.
6. ES = NR 140 Enforcement Standard.
7. PAL = NR 140 Preventive Action Limit.
8. NA = not applicable.
9. mg/kg = milligram per kilogram.
10. MRL = method reporting limit.
11. MDL = method detection limit.
12. USEPA MCL = United States Environmental Protection Agency Maximum Contaminant Level.

Date: 3/20/06
By: G. Graf
Checked by: J. Kucher

Footnotes:

(1) Values are for total trimethylbenzenes (1,2,4 and 1,3,5 combined).

(2) Values are for total xylenes (ortho, meta, and para combined).

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Table A-2
Sampling and Analysis Program
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

LABORATORY PARAMETERS	FREQUENCY	LABORATORY	LABORATORY METHODS	NUMBER OF SAMPLES	FIELD DUPLICATES	FIELD BLANKS	MS/MSD	TRIP[1] BLANKS	TOTAL[2] NUMBER OF SAMPLES	FIELD[3] PARAMETERS	DQO LEVEL
Monitoring Wells and Private Wells											
VOCs	Twice	CT	SW-846 Method 5030B/8260B	20	2	0	1	5	27	pH, temperature, DO, redox, conductivity, turbidity, water level at monitoring wells	4
TAL (mercury)	Twice	STL	SW-846 7470	20	2	0	1	0	22		4
TAL metals [4]	Twice	STL	SW-846 Method 6010B	20	2	0	1	0	22		4
TAL metals [5]	Twice	STL	SW-846 Method 6020	20	2	0	1	0	22		4
TOC	Twice	STL	EPA 415[1]	20	2	0	1	0	22		4
Ammonia	Twice	STL	EPA 350.2	20	2	0	1	0	22		4
TKN	Twice	STL	EPA 351.2	20	2	0	1	0	22		4
Nitrate	Twice	STL	EPA 300.0	20	2	0	1	0	22		4
Alkalinity	Twice	STL	EPA 310.1/310.2	20	2	0	1	0	22		4
Sulfate	Twice	STL	EPA 300.0	20	2	0	1	0	22		4
Chloride	Twice	STL	EPA 300.0	20	2	0	1	0	22		4
Cyanide	Twice	STL	EPA 335	20	2	0	1	0	22		4
Municipal Well											
VOCs	Twice	CT	USEPA 524.2	1	1	0	1	1	3		4
Groundwater											
VOCs	During drilling	CT	SW-846 Method 5030B/8260B	39	4	4	2	10	57	pH, temperature, DO, redox, conductivity, turbidity, water level	4
Soil											
Organic carbon	During drilling	STL	Walkley Black	Up to 20	2	0	0	0	Up to 22		4

Notes:

1. Unless otherwise noted, samples are considered low concentration and shipped accordingly.
2. The laboratory address and telephone number are:

STL	CT
10 Hazelwood Drive, Suite 106	1230 Lange Court
Amherst, New York 14228	Baraboo, Wisconsin 53913
Phone: (716) 691-2600	Phone: (608) 356-2760
Fax: (716) 691-7991	Fax: (608) 356-2766
Contact: Candace Fox	Contact: Pat Letterer

Footnotes:

[1] The number of trip blanks are estimated. One trip blank will be included in each cooler containing VOC water samples.

[2] Does not include MS/MSD samples.

[3] Field parameters are measured consistent with a DQO Level 1.

[4] Metals include aluminum, arsenic, barioum, calcium, chromium, cobalt, copper, iron, mangesium, manganese, nickel, potassium, selenium, silver, sodium, vanadium, and zinc.

[5] Metals include antimony, beryllium, cadmium, lead, and thallium.

Table A-3
Sample Volume, Preservatives, and Packaging Requirements
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYSIS	BOTTLES AND JARS	PRESERVATION	HOLDING TIMES	VOLUME	SHIPPING	PACKAGING
Groundwater						
VOCs	Four 40-mL glass vials	1:1 HCl, ice to 4°C	14 days	Fill completely, no headspace	Shipped via overnight carrier	Bubble packing
TAL	One 250-mL plastic bottle	HNO_3 to pH </= 2, ice to 4°C	180 days Hg = 28 days	Fill completely	Shipped via overnight carrier	Bubble packing
Cyanide	one 125-mL plastic bottle	NaOH to pH>12, ice to 4°C	14 days	Fill completely	Shipped via overnight carrier	Bubble packing
Nitrate, ammonia, TKN	One 250-mL plastic bottle	H_2SO_4 to pH </= 2, ice to 4°C	28 days	Fill completely	Shipped via overnight carrier	Bubble packing
Alkalinity	One 250-mL plastic bottle	Ice to 4 °C	28 days	Fill completely zero headspace	Shipped via overnight carrier	Bubble packing
Chloride, sulfate	one 250-mL plastic bottle	Ice to 4 °C	28 days	Fill completely	Shipped via overnight carrier	Bubble packing
TOC	two 40-mL glass vials	HCl, ice to 4°C	28 days	Fill completely	Shipped via overnight carrier	Bubble packing
Soil						
Organic carbon	One 8-ounce jar	Ice to 4 °C	28 days	Fill completely	Shipped via overnight carrier	Bubble packing

Notes:

1. Holding time begins at the time of sample collection.
2. Packaging material should completely cushion sample bottles.

Footnote:

(1) Samples will only be filtered if the turbidity does not stabilize below 10 NTUs.

Table A-4 Revised (April 2006)
Summary of Analytical Methods
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTES	STL LABORATORY SOP	CT LABORATORY SOP	USEPA METHOD
VOCs	AMV-8260B-56	5280B	8260B
Safe drinking water VOCs	NA	5240B	524.2
TAL metals	AME-6010-30 AME-ICP-MS-45 AME-Mercury-50	NA	6010B, 6020, 7470
TOC	AWC-TOC-15	NA	415.1
Alkalinity (automated)	AWC-310.2-18	CC-10	310.2
Alkalinity (titrimetric)	AWC-310.1-17	CC-11	310.1
Chloride	AWC-IC-05	CC-IC	300 (IC)
Cyanide	AWC-Cyanide-12	NA	335
Nitrate	AWC-IC-05	CC-IC	300 (IC)
Ammonia	AWC-350.1-19	CC-18	350.2
Ammonia preparation	NA	CC-3	350.2
Total Kjeldahl nitrogen	AWC-351.2-45	CC-21	351.2
Total Kjeldahl nitrogen preparation	NA	CC-TKN/Phos. Prep	351.2
Sulfate	AWC-IC-05	CC-IC	300 (IC)
Fractional organic carbon	PITT-WC-0058	NA	Walkley Black
Internal COC	ASR-COCFORM17	SS-4	NA
Sampling receipt	ASR-Receipt-05	NA	NA
Temperature monitoring	ASR-Temp-28	NA	NA
Sample storage	ASR-STORAGE-27	NA	NA
Sample disposal	ASR-DISP-33	NA	NA
Sample inventory	ASR-INV-08	NA	NA

Notes:

1. Method references are found in the individual SOPs (Appendix A) and include EPA Methods for the Examination of Water and Wastewater (1983), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, (SW 846), 3rd Edition, Update March 12, 1996, and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
2. NA = not applicable.
3. Because laboratory SOPs are updated on a regular basis, the SOPs in effect at the time of sample analysis will be used.

65

Table A-5
Summary of Method Quality Objectives
Expanded Groundwater Monitoring
Muskego Sanitary Landfill - Muskego, Wisconsin

ANALYTE	INITIAL CALIBRATION	BFB TUNING	BLANKS	INITIAL CALIBRATION VERIFICATION	CONTINUING CALIBRATION	LABORATORY CONTROL SAMPLE	DUPLICATE	MATRIX SPIKE	INTERFERENCE CHECK SAMPLE	SERIAL DILUTION
Ammonia	Blank plus a minimum of 5 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 10 samples, +/- 20% RPD	1 per 20 samples, 75 to 125% recovery	Not applicable	Not applicable
TKN	Blank plus a minimum of 5 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 75 to 125% recovery	Not applicable	Not applicable
Ion chromatography (chloride, nitrate, and sulfate)	Blank plus a minimum of 6 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples,< MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 80 to 120% recovery	Not applicable	Not applicable
Alkalinity	A minimum of 7 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 15% RPD	1 per 20 samples, 80 to 120% recovery	Not applicable	Not applicable
Alkalinity (titrimetric)	Not Applicable	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	Standardization of titrant, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 80 to 120% recovery	Not applicable	Not applicable
Total organic carbon	Standardization of titrant	Not applicable	1 per 20 samples, < MRL	Not applicable	Not applicable	1 per batch, 75 to 125% recovery	1 per 20 samples, 80 to 120% recovery	Not applicable	Not applicable	Not applicable
ICP metals	Blank, plus a minimum of 3 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 75 to 125% recovery	Beginning of Analytical Sequence +/- 20%	1 per batch, +/- 10% difference
ICP-MS metals	Blank, plus a minimum of 3 standards, r^2 >/= 0.995	Not applicable	After initial calibration, 1 per 10 samples, < 3 X IDL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	Not applicable	1 per 20 samples, 75 to 125% recovery	Beginning of analytical sequence +/- 20%	1 per batch, +/- 10% difference
Mercury	Blank, plus a minimum of 3 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples, < MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 75 to 125% recovery	Beginning of Analytical Sequence +/- 20%	1 per batch, +/- 10% difference
Cyanide	Blank plus a minimum of 6 standards, r^2 >/= 0.995	Not applicable	After initial calibration, and 1 per 10 samples,< MRL	After initial calibration, 90 to 110% recovery	After every 10 samples, 90 to 110% recovery	1 per batch, 80 to 120% recovery	1 per 20 samples, +/- 20% RPD	1 per 20 samples, 80 to 120% recovery	Not applicable	Not applicable
VOCs	A minimum of 5 standards, see Section 17, page 21 of SOP for criteria	Every 12 hours, see Table 2 of SOP for ion abundance criteria	After initial calibration, and every 12 hours, < MRL	After initial calibration, 80 to 120% recovery	Every 12 hours, see Subsection 17.2, pages 21 and 22 for criteria	1 per batch, within statistically derived laboratory limits.	Not applicable	1 per 20 samples,	Not applicable	Not applicable

Notes:
1. RPD = relative percent difference.
2. MRL = method reporting limit.
3. MDL = method detection limit.
4. IDL = Instrument detection limit.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WESTJACKSON BOULEVARD
CHICAGO, IL 60604-3590

SRT-4J
 # 3359

DATE: May 9, 2006

SUBJECT: Approval

FROM: Warren Layne, Chemist, Field Services Section (FSS)

TO: Sheri Bianchin , Remedial Project Manager

I have read and approve the Muskego Sanitary Landfill Quality Assurance Plan Addendum No. 2.

From: <Bianchin.Sheri@epamail.epa.gov>
To: Kenneth Quinn <Kenneth.Quinn@rmtinc.com>
Date: 6/29/2006 12:53:50 PM
Subject: Re: Muskego - Groundwater Sampling

Hi Ken,

Thanks for the information. Can you inform us the filter size that was used?
Also, I have several followups to present. Two I mentioned to Larry yesterday when we met in Muskego.

1) We would like to know more about the pumping of groundwater fromn the Payne and Dollan (sp?) gravel pit and to get that sampled, if possible. I have heard that they are actively pumping.

2) Could you report on the status of PW-20- also known as the Wauer well. Who owns that well? Does that well still exist? When was the last time it was sampled?

3) Based upon my recent research, I have been told that some of the residents have abandoned their wells. I will get you a list of those wells so that you can follow-up to see if they have reported to the DNR as required.

thanks
Sheri

Sheri L. Bianchin
Remedial Project Manager
Institutional Controls Coordinator
U.S. EPA- Region 5
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604
312-886-4745

Kenneth Quinn
<Kenneth.Quinn@r
mtinc.com>

06/29/2006 11:19 AM

To
To
SHERI BIANCHIN/R5/USEPA/US@EPA
cc
Lisa Zebovitz
<LZebovitz@ngelaw.com>, Larry
Buechel <lbuechel@wm.com>
Lisa Zebovitz
<LZebovitz@ngelaw.com>, Larry
Buechel <lbuechel@wm.com>
bcc

Fax to

Subject
Muskego - Groundwater Sampling

Sheri,

During the first round of sampling there were several wells where the sediment did not clear up during sampling. This required sampling with significant fines in the samples. These wells (e.g., MW03A and MW04A) were installed in fine grained soils, so the fact that they didn't clear up is understandable. Therefore, during this round of sampling we feel it would be appropriate to consider the effect of sediment on metal analyses through the collection of a filtered sample in addition to the planned samples at a couple of selected locations. This would be implemented by first collecting the samples according to the Work Plan. Then, when finished with the Work Plan method at the well, we would install an in-line filter and collect a filtered sample for the TCL metals analysis. Both samples would be submitted for TCL analysis.

We plan to do this at wells MW01 and MW03A.

If you have any questions that were raised at your site visit yesterday, please let me know.

Ken

Ken Quinn
Sr. Consultant

608-662-5216 voice
608-358-5193 mobile
608-831-3334 fax
RMT Inc.
744 Heartland Trail
Madison, Wisconsin 53717

email: kenneth.quinn@rmtinc.com

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CC: Larry Buechel <lbuechel@wm.com>, Lisa Zebovitz <LZebovitz@ngelaw.com>, <kay.bob@epamail.epa.gov>, Jan Kucher <Jan.Kucher@rmtinc.com>, "Delwiche, Jim C." <Jim.Delwiche@dnr.state.wi.us>, <jkeiser1@ch2m.com>, "Zebovitz, Lisa" <LZebovitz@ngelaw.com>, "Payne, Nancy P" <Nancy.Payne@dnr.state.wi.us>, Nate Keller <Nate.Keller@rmtinc.com>, "Nehls-Lowe, Henry" <NEHLSHL@dhfs.state.wi.us>, <Paul.Rohde@ch2m.com>, <prohde@ch2m.com>, <schavs@dnr.state.wi.us>, <SchavS@mail01.dnr.state.wi.us>, "Schaver, Sharon L" <Sharon.Schaver@dnr.state.wi.us>, <skloskowski@ci.muskego.wi.us>, <smcmullen@ci.muskego.wi.us>, <Krueger.Thomas@epamail.epa.gov>, <tpowell@ruekert-mielke.com>, <tshult2@ch2m.com>, <Layne.Warren@epamail.epa.gov>

From: Kenneth Quinn
To: Bianchin, Sheri
Date: 6/29/2006 2:01:45 PM
Subject: Fwd: Muskego - Groundwater Sampling

Sheri,

The filters are the standard 0.45 um filters.

I forgot to cc the rest of the group on the first e-mail, so I included them on this response.

Ken

Ken Quinn
Sr. Consultant

608-662-5216 voice
608-358-5193 mobile
608-831-3334 fax
RMT Inc.
744 Heartland Trail
Madison, Wisconsin 53717

email: kenneth.quinn@rmtinc.com

CC: Buechel, Larry; Delwiche, Jim; kay.bob@epamail.epa.gov; Rohde, Paul; Zebovitz, Lisa

From: <Bianchin.Sheri@epamail.epa.gov>
To: *"Kenneth Quinn" <Kenneth.Quinn@rmtinc.com>*
Date: 5/30/2007 3:47 PM
Subject: Re: Phase 2 Sampling Approval

CC: "Jason Schoephoester" <Jason.Schoephoester@rmtinc.com>, "Larry Buechel" ...
Thanks Ken for articulating the agreement.

Paul confirmed that Hill is available to perform oversight next week.
He will contact you tomorrow to get the details.
Sheri

Sheri L. Bianchin
Remedial Project Manager
Institutional Controls Coordinator
U.S. EPA- Region 5
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604
312-886-4745

"Kenneth Quinn"
<Kenneth.Quinn@r
mtinc.com>

05/30/2007 01:22 PM

To
SHERI BIANCHIN/R5/USEPA/US@EPA

cc
"Paul Rohde" <prohde@ch2m.com>,
"Lisa Zebovitz"
<LZebovitz@ngelaw.com>, "Jason
Schoephoester"
<Jason.Schoephoester@rmtinc.com>,
"Nate Keller"
<Nate.Keller@rmtinc.com>, "Larry
Buechel" <lbuechel@wm.com>

Subject
Phase 2 Sampling Approval

Sheri,

As we agreed today, RMT will conduct the groundwater sampling, on behalf

of the MSGRG, as described in the Phase 2 Expanded Groundwater Monitoring Work Plan. Analysis will be conducted according to that Work Plan with the addition of the Target Analyte List (TAL) on the first round of sampling, as described in the April 2006 QAPP addendum 2 for the (Phase 1) Expanded Groundwater Monitoring. Filtering of the metals samples will be conducted using a 0.45 um, in-line filter.

We plan to do the sampling beginning on June 4 if we can work out the schedule with Paul at CH2M Hill.

If you have any questions, please contact me.

Ken

Ken Quinn
Sr. Consultant

608-662-5216 voice
608-358-5193 mobile
608-831-3334 fax
RMT Inc.
744 Heartland Trail
Madison, Wisconsin 53717

email: kenneth.quinn@rmtinc.com

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Appendix B
Other EPA-Related Documents

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: September 12, 2006

SUBJECT: **Review of Data**
Received for review on August 8, 2006

FROM: **Stephen L. Ostrodka, Chief (SRT-4J)**
Superfund Field Services Section

TO: **Data User:** EDI

We have reviewed the data by CADRE for the following case:

SITE NAME: Muskego Sanitary Landfill (WI)

CASE NUMBER: 35558 **SDG NUMBER:** ME3K69

Number and Type of Samples: 14 water samples

Sample Numbers: ME3K57-58; ME3K64; ME3K66; ME3K69 - 78

Laboratory: Bonner Analytical **Hrs. for Review:**

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

1/234

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Fourteen (14) water samples, numbered ME3K57-58, ME3K64, ME3K66, ME3K69-78, were collected on July 20, 2006. The laboratory received the samples on July 21-22, 2006. The samples were received with cooler temperatures of 12.6 and 16.2 °C (sample ME3K69 was received at 2°C). No sample results are qualified for temperature. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

The chain of custody seals were included with the package, however, the seal numbers were not documented on the chain of custody records. No data was qualified for this discrepancy. The Chain of Custody seal numbers were not recorded on the Field Chain-of-Custody's by the field sampler. The laboratory sample receiving personnel recorded the seal numbers for the coolers received at the laboratory. The seal numbers were recorded on the Laboratory Sample Receipt Form. Seals included in the case agree with those recorded by the laboratory where record of them was made. According to the Contract Laboratory Program Guidance for Field Samplers (EPA540-R-00-003) Section 3.2.3, "Custody seals are usually pre-printed stickers that are signed (or initialed) and dated by the sampler after collection and placed on sample bottles or containers and/or shipping coolers or containers. The custody seals document who sealed the sample container and verify that the sample has not been tampered with." The seals included in the case were not initialed/dated and no record exists of who applied them or what numbers were applied. If this case is taken to court, the results will not be legally defensible due to the lack of a record of the chain of custody seal numbers as applied by the sampling personnel.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

For the ICP analyses, CRI 04 and CRI 05 were performed consecutively. As no analytes failed in the first run, the second analysis was not necessary.

Reviewed by: Paul Little/TechLaw, Inc. - ESAT
Date: September 12, 2006

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL (CRI) standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Aluminum
ME3K64, ME3K66, ME3K69, ME3K70, ME3K71, ME3K72, ME3K73, ME3K74, ME3K75, ME3K76, ME3K77, ME3K78

Barium
ME3K78

Beryllium
ME3K57, ME3K58, ME3K66, ME3K69, ME3K73, ME3K74

Calcium
ME3K66, ME3K72

Copper
ME3K78

Iron
ME3K72, ME3K77

Magnesium
ME3K72

Manganese
ME3K78

Potassium
ME3K64, ME3K66, ME3K69, ME3K70, ME3K71, ME3K77, ME3K78

Vanadium
ME3K57, ME3K58, ME3K66, ME3K71, ME3K77

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Chromium

ME3K72

Copper

ME3K66, ME3K69, ME3K71, ME3K72, ME3K75, ME3K76, ME3K77

Manganese

ME3K64, ME3K70, ME3K72, ME3K75, ME3K76, ME3K77

Mercury

ME3K69, ME3K71

Silver

ME3K73

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples.

ME3K57/58 and ME3K75/76 may be field duplicates. No defects were found for these field duplicate samples.

6. ICP ANALYSIS:

No defects were found for the serial dilution sample or ICSA standard.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Arsenic

ME3K57, ME3K70, ME3K74

Antimony

ME3K57

Barium

ME3K57, ME3K58, ME3K64, ME3K66, ME3K69, ME3K70, ME3K71, ME3K72, ME3K73, ME3K74, ME3K75, ME3K76, ME3K77

Cobalt

ME3K57, ME3K58

Lead

ME3K57

Nickel

ME3K69, ME3K71, ME3K73

Zinc

ME3K64, ME3K66, ME3K70, ME3K71, ME3K72, ME3K74, ME3K75, ME3K76, ME3K77, ME3K78

All data, except those qualified above, are acceptable.

Reviewed by: Paul Little/TechLaw, Inc. - ESAT
Date: September 12, 2006

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Reviewed by: Paul Little/TechLaw, Inc. - ESAT
Date: September 12, 2006

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9/15/06

SUBJECT: **Review of Data**
Received for review on 8/8/06

FROM: **Stephen L. Ostrodka, Chief (SRT-4J)**
Superfund Field Services Section

TO: **Data User:** EDI

We have reviewed the data by CADRE for the following case:

SITE NAME: Muskego Sanitary Landfill (WI)

CASE NUMBER: 35558 **SDG NUMBER:** ME3K45

Number and Type of Samples: 20 waters

Sample Numbers: ME3K45-56, 59-63, 65, 67-68

Laboratory: Bonner **Hrs. for Review:**

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) water samples, numbered ME3K45-56, 59-63, 65, 67-68, were collected between July 18 and 20, 2006. The lab received the samples on July 20-21, 2006. All samples except ME3K59, 63, 67 and 68 were received at 1°C which is outside the required temperature range. No sample results are qualified for temperature. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

The Chain of Custody seal numbers were not recorded on the Field Chain-of-Custody's by the field sampler. The laboratory sample receiving personnel recorded the seal numbers for one of the three coolers received at the laboratory. One of the remaining two coolers had the seal numbers recorded on the Laboratory Sample Receipt Form. No seal numbers were recorded for the third cooler. Seals included in the case agree with those recorded by the laboratory where record of them was made. According to the Contract Laboratory Program Guidance for Field Samplers (EPA540-R-00-003) Section 3.2.3, "Custody seals are usually pre-printed stickers that are signed (or initialed) and dated by the sampler after collection and placed on sample bottles or containers and/or shipping coolers or containers. The custody seals document who sealed the sample container and verify that the sample has not been tampered with." The seals included in the case were not initialed/dated and no record exists of who applied them or what numbers were applied. If this case is taken to court, the results will not be legally defensible due to the lack of a record of the chain of custody seal numbers as applied by the sampling personnel.

In the laboratory SDG Narrative, the laboratory noted the mercury duplicate for ME3K59 was outside CLP limits and that results were flagged. However, no results were flagged on the laboratory Form 1s.

The pH of cyanide sample ME3K60 was documented as 10. The Region instructed the laboratory to continue with analysis of the sample (no instruction was included for pH adjustment). At the time of sample preparation, the sample pH was recorded as >12. No notation on any laboratory documentation indicates that the sample pH was adjusted.

For the ICP analyses, all CRI analyses except the first for each run were performed twice consecutively. As no analytes failed in the first run, the second analysis was not necessary. Also, 2 QC samples were analyzed in the package. No serial dilution was performed for QC sample ME3K59. Since the method requires one serial dilution per sample matrix (matrix is defined as soil/water), this is considered acceptable. No sample results are qualified for these issues.

1. HOLDING TIME:

An inorganic sample for cyanide analysis did not meet pH criteria upon receipt. The sample was received at a pH of 10. The laboratory was not instructed to adjust the pH; however, the pH at the time of sample preparation was recorded as ">12".

The cyanide result is estimated "UJ" due to a low bias.

Cyanide

ME3K60

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB, preparation or field blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Aluminum

ME3K51, ME3K52, ME3K53, ME3K54, ME3K55, ME3K56, ME3K61, ME3K62, ME3K63, ME3K65, ME3K67, ME3K68

Antimony

ME3K52

Barium

ME3K60, ME3K61, ME3K62, ME3K63, ME3K65, ME3K67, ME3K68

Beryllium

ME3K59, ME3K61, ME3K62

Calcium

ME3K49, ME3K56

Chromium

ME3K51, ME3K55, ME3K61, ME3K62, ME3K68

Iron

ME3K53

Magnesium

ME3K55, ME3K68

Manganese
ME3K51, ME3K52, ME3K55, ME3K65, ME3K68

Mercury
ME3K45, ME3K46, ME3K54

Potassium
ME3K45, ME3K46, ME3K47, ME3K48, ME3K49, ME3K50, ME3K51, ME3K52, ME3K53, ME3K54, ME3K55, ME3K56, ME3K59, ME3K60, ME3K61, ME3K62, ME3K63, ME3K65, ME3K67, ME3K68

Vanadium
ME3K52, ME3K53, ME3K59, ME3K60, ME3K61, ME3K62, ME3K63, ME3K65

Zinc
ME3K45, ME3K48, ME3K49, ME3K51, ME3K52, ME3K53, ME3K55, ME3K59, ME3K60, ME3K61, ME3K62, ME3K67, ME3K68

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.
Hits less than 5 times the blank are qualified "J-".

Barium
ME3K56

Calcium
ME3K49

Copper
ME3K46, ME3K47, ME3K48, ME3K49, ME3K54, ME3K59

Manganese
ME3K48

Nickel
ME3K56, ME3K59, ME3K63, ME3K67

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet absolute difference (AD) primary criteria. The samples are associated with the matrix identified as Ground Water.
Hits for the "Ground Water" matrix are qualified "J" and non-detects are qualified

"UJ". No samples for the "Potable Water" matrix are affected.

Mercury
ME3K45, ME3K55, ME3K56, ME3K59, ME3K60, ME3K61, ME3K62, ME3K68

ME3K46 and ME3K47 are field duplicates. No defects were found for the field duplicate samples.

6. ICP ANALYSIS:

No defects were found for the serial dilution or ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Arsenic
ME3K47, ME3K48, ME3K59, ME3K61, ME3K63, ME3K67

Barium
ME3K45, ME3K46, ME3K47, ME3K48, ME3K50, ME3K51, ME3K52, ME3K53, ME3K54, ME3K56, ME3K59

Calcium
ME3K55, ME3K68

Cobalt
ME3K59

Copper
ME3K46, ME3K47, ME3K48, ME3K49, ME3K54, ME3K59

Iron
ME3K55, ME3K68

Manganese
ME3K48

Mercury
ME3K55

Nickel
ME3K56, ME3K59, ME3K63, ME3K67

All data, except those qualified above, are acceptable.

CADRE ILM05.3 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

US Environmental Protection Agency
Muskego Sanitary Landfill Sampling Locations

July 2006 via Contract
USEPA STAT TO 14
Environmental Design International, inc.

	Resident/Ownser	Sample Location	Well Designation
1	Chris /Edward Magesky	S83 W20671 Janesville	PW-M
2	County c/o Debra Price	County Park Beach House	Beach House
3	County c/o Debra Price	County Park Hand Pump	Hand Pump
4	Kenneth Peterson	S92 W 19918 Henneberry	
5	Karen Gumieny	S92 W 20372 Henneberry	
6	Barbara Pries	W207 S 9122 Hillendale	
7	Sackman	W207 S 8602 Hillendale - see note	PW-G
8	Brian Martin	W207 S 9298 Hillendale	
9	Jay Gross	W208 S 8343 Hillendale	PW-12
10	Lawrence Schmidt	W208 S 8285 Hillendale	PW-14
11	Vern Moeller	W209 S8543 Hillendale	PW-22
12	Arthur and Jeanne Zangerle	S84 W20938 Janesville Rd	PW-9
13	Ant. P Salentine	S87 W22355 Janesville	
15	Timothy Leonard	S93 W 19675 Henneberry	
16	Dale Henneberry	S93 W 19809 Hillendale	
17	John & Tricia Henneberry	S93 W 19979 Henneberry	
18	Kristie & Brian Henneberry	S93 W 19989 Henneberry	
19	Diane Mitsch	S93 W 21183 Henneberry	
20	Tom Vitrano	W207 S 8810 Hillendale	
21	Anthony Vitrano	W207 S 8861 Hillendale	
22	Jack King	W216 S 9202 Crowbar	
23	Muskego Moose Lodge	S86 W 21693 Janesville	PW-22
24	Bonnie Acker	S85 W 21175 Janesville/ Stagecoach Inn	PW-8
25	Arthur and Jeanne Zangerle	64A	
26	Arthur and Jeanne Zangerle	64B	
27	Arthur and Jeanne Zangerle	64C	
28	Art Dyer	Near N W208 S8861 Hillendale A	
29	Art Dyer	Near N W208 S8861 Hillendale B	
30	Gloria Fischer	W207 S 8802 Hillendale- see note	
31	Marilee Henneberry	S93 W 19721 Hillendale	
	Items of Note:		

Samples for Near N W208 S8861 Hillendale A and B are not valid due to a mixup at the lab due to confusion caused by sample id numbers assigned.

Fischer and Sackman results were mixed up due to wrong address label.

Field notes indicate "Fischer address is actually W207 S8686 but labeled as W207 S8602. 8602 is Sackman address but was labeled 8686."

Address at S93 W 19989 Hillendale should be S93 W 19989 Henneberry.

Address at S93 W 19721Hillendale should be Henneberry.

There are several samples with "no-detect" results however the detection limits may be at or above PAL or ES Criteria.

US Environmental Protection Agency
Muskego Sanitary Landfill Sampling Locations

USEPA STAT TO 14
Environmental Design International, inc.

Matrix	Notes	Sample Date
Potable Well		7/18/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/19/2006
Potable Well		7/19/2006
Potable Well		7/20/2006
Potable Well	see note re: wrong address	7/19/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well	see note re: address	7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Potable Well		7/20/2006
Groundwater		7/18/2006
Groundwater		7/20/2006
Groundwater		7/20/2006
Groundwater		7/20/2006
Groundwater		7/20/2006
Groundwater	see note	7/20/2006
Groundwater	see note	7/20/2006
Potable Well	see note re: wrong address	7/18/2006
Potable Well	see note re: wrong address	7/20/2006

US Environmental Protection Agency
Muskego Sanitary Landfill Sampling Locations

USEPA STAT TO 14
Environmental Design International, inc.

Method: 200.9 (GFAA Metals)
Site: Muskego Sanitary Landfill
Date: July 26, 2007
Prepared by: Paul Little

TDF: R5-01-057
TechLaw Job #: 03037.1.01.02.01.05J5.000.057
Task Order #: R5-0-01
Data Sets: E707001 and E707002

NARRATIVE

Fourteen (14) water samples from the Muskego Sanitary Landfill site were collected between July 17 and July 19, 2007 and were received at CRL between July 18 and 19, 2007. Samples E707002-07 was received at temperatures outside the acceptable range, no results are qualified for temperature deficiencies. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA. The sample point identifications are listed on the first page of the LIMS report following this narrative. Raw data and QC forms are filed in the folder for E707001.

All water samples were digested following standard CRL 200.2 hot block digestion protocols (CRL SOP METALS025) on July 23, 2007 as LIMS digestion batches EG72002. All analyses were performed between July 24 and July 25, 2007 using 200.9 methods (CRL SOP's METALS019). Antimony, cadmium, and lead were analyzed on the AAnalyst 600. Selenium, arsenic, and thallium were analyzed on the AAnalyst 800. QC limits used are CRL default limits.

Because reported QC values are less than 5 times the MDL, for all elements except As for EG72002-DUP1, duplicate difference criteria was used for control purposes for all elements except As for EG72002-DUP1. All matrix duplicates, except EG72002-DUP1, are flagged "<5X" in LIMS and are acceptable. All other QC values were within limits. All samples were analyzed within the holding time limit.

The following results between the method detection limit (MDL) and the RL are reported as the instrument value with a "J" flag and are considered estimated: E707001-06 and E707002-08 for arsenic; E707001-01 for cadmium; E707001-02, -06, E707002-02, -03, -07, and -08 for lead; E707001-01 for thallium. All other sample results are acceptable. The presence of interference required some samples to be diluted in order to meet analytical spike recovery criteria. The following reported values are adjusted for dilution: EG72002-MS2 for arsenic; EG72002-MS4 for lead; E707001-05, -06, E707002-02, -03, -04, -08, -09, EG72002-DUP1, -DUP2, -MS2 and -MS4 for thallium. Where appropriate, reported values are dilution corrected. All other sample results are acceptable.

Samples E707001-03/-04 were identified as a field duplicate pair. They show good correlation for all elements. Determinations of correlation were made using laboratory duplicate criteria. No results are qualified for field duplicates. Sample E707002-05 was identified as an equipment blank. The sample showed no signs of contamination.

QC reports which include analytical QC are provided as Excel spreadsheets. Logbook entries for this metals analysis can be found in an ESAT Laboratory Notebook. It has been observed that, due to differences in the significant figures used for calculation and rounding of reported values, RPD values and some matrix spike recoveries calculated by LIMS are not correct. The correct values are included as Excel spreadsheets in the Analytical/Matrix QC Summary Report provided in the data package.

Paula Little
7/30/07

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

Paul Little, Chemist 7/30/07

Report Name: E707002,E707001 FINAL Jul 30 07 0948

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

Metals by GFAA

TechLaw - ESAT Contract

Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	4.9		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	0.1	J	0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	5.4		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	0.5	J	0.3	1.0	"	"	"	"	Jul-24-07	EPA 200.9

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	9.1		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	1.3	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.3	1.0	"	"	"	"	Jul-24-07	EPA 200.9

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	2.1		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.3	1.0	"	"	"	"	Jul-24-07	EPA 200.9

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	2.3		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9

Paul Little 7/30/07
Paul Little, Chemist

Report Name: E707002,E707001 FINAL Jul 30 07 0948

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

Metals by GFAA

TechLaw - ESAT Contract

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Thallium	U		0.3	1.0	ug/L	1	EG72002	Jul-23-07	Jul-24-07	EPA 200.9

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	3.4		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	1.9	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	0.9	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	4.8		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.3	1.0	"	"	"	"	Jul-24-07	EPA 200.9

7/30/07
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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

Metals by GFAA

TechLaw - ESAT Contract

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	2.5		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	0.8	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	5.8		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	0.7	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	7.2		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	4.8		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9

Paul a Little 7/30/07
Paul Little, Chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

Metals by GFAA

TechLaw - ESAT Contract

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Thallium	U		0.3	1.0	ug/L	1	EG72002	Jul-23-07	Jul-24-07	EPA 200.9

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	6.8		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	0.6	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.3	1.0	"	"	"	"	Jul-24-07	EPA 200.9

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	1.1	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	1.3	J	0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Antimony	U		1.0	4.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.9
Arsenic	6.3		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Cadmium	U		0.1	0.3	"	"	"	"	Jul-24-07	EPA 200.9
Lead	U		0.5	2.0	"	"	"	"	Jul-24-07	EPA 200.9
Selenium	U		1.0	4.0	"	"	"	"	Jul-24-07	EPA 200.9
Thallium	U		0.6	2.0	"	2	"	"	Jul-25-07	EPA 200.9

Paul Little, Chemist 7/30/07

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:48

Notes and Definitions

X	U
J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

Paul Little, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
E707001-02	GFAA Metals (W)	Thallium	X: U VERSION 5.8.5:2722
	GFAA Metals (W)	(Water)	Result calculations based on MDL
EG72002-DUP2	GFAA Metals (W)	Lead	Exceeds RPD limit
EG72002-DUP2	GFAA Metals (W)	Cadmium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP2	GFAA Metals (W)	Lead	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP2	GFAA Metals (W)	Selenium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No Default Report (not modified)
EG72002-DUP2	GFAA Metals (W)	Arsenic	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP2	GFAA Metals (W)	Antimony	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
E707001-03	GFAA Metals (W)	Thallium	X: U
EG72002-DUP1	GFAA Metals (W)	Cadmium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP1	GFAA Metals (W)	Lead	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP1	GFAA Metals (W)	Selenium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP1	GFAA Metals (W)	Thallium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP1	GFAA Metals (W)	Antimony	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No
EG72002-DUP2	GFAA Metals (W)	Thallium	< 5X: One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No

Paul A [illegible] 7/30/07

Sample, Log and Extraction Comments

E707001-01
GFAA Metals (W)

M/E2EE0
pH <2
pH <2

E707001-02
GFAA Metals (W)

M/E2EE1
pH <2
pH <2

E707001-03
GFAA Metals (W)

M/E2EE5
pH <2
pH <2

E707001-04
GFAA Metals (W)

M/E2EE6: Field Duplicate of E707001-03
pH <2
pH <2

E707001-05
GFAA Metals (W)

M/E2EH3
pH <2
pH <2

E707001-06
GFAA Metals (W)

M/E2EH4
pH <2
pH <2

E707002-01
GFAA Metals (W)

M/E2EG7
pH <2
pH <2

E707002-02
GFAA Metals (W)

M/E2EG9
pH <2
pH <2

E707002-03
GFAA Metals (W)

M/E2EH0: MS/MSD
pH <2
pH <2

E707002-04
GFAA Metals (W)

M/E2EH5
pH <2
pH <2

E707002-05
GFAA Metals (W)

Equipment Blank
pH <2
pH <2

E707002-07

Paula Zoss 7/30/07

GFAA Metals (W)

M/E2EG2
pH <2
pH <2

E707002-08
GFAA Metals (W)

M/E2EG3: MS/MSD
pH <2
pH <2

E707002-09
GFAA Metals (W)

M/E2EH1
pH <2
pH <2

Method: 200.7 (ICP Metals)
Site: Muskego Sanitary Landfill
Date: July 27, 2007
Prepared by: Stephen Connet

TDF: R5-01-057
TechLaw Job #: 03037.1.01.02.01.05J5.000.057
Task Order #: R5-0-01
Data Set(s): E707001 thru E707002

NARRATIVE

Fourteen (14) water samples from the Muskego Sanitary Landfill site were collected between July 17 and 19, 2007 and were received at CRL between July 18 and 19, 2007. Although some of the samples were received at temperatures outside the acceptable range, no results are qualified for temperature deficiencies. The samples were submitted to ESAT for analysis of total metals by ICP. The sample point identifications are listed on the first page of the LIMS report following this narrative. Raw data and QC forms are filed in the folder for E707001.

All water samples were digested following standard CRL 200.2 hot block digestion protocols (CRL SOP METALS025) on July 23, 2007 as LIMS digestion batch EG72002. The samples were initially analyzed on July 25, 2007 according to CRL SOP METALS003 using the Optima 4300DV. Due to problems with the data, the samples were reanalyzed on July 26, 2007. Sample results for all elements except Cr, Mg, Ag and V are reported from the first analytical run. Cr, Mg, Ag and V results are reported from the second analytical run. The data was evaluated using recently evaluated ESAT MDL values. ESAT has been instructed to report samples results to CRQL levels used in ILM05.3.

The following analytes will be addressed in this case narrative:

Al, Ba, Be, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn

Blanks:	EG72002-BLK1	Al 396	23.69 ug/L
		Mg 280	3.26 ug/L
		V 292	0.96 ug/L
	Instr. Blank 1	Al 396	-15.97 ug/L
		V 292	0.28 ug/L
	Instr. Blank 2	Na 589	29.10 ug/L
		Cr 267	0.53 ug/L
		V 292	0.28 ug/L

Blank qualification: For elements where no samples are affected by blank detects (positive or negative), the blank levels are not listed. Sample results to 10 times the absolute blank value are qualified. Blank results bracketing sample results are used for qualification. Preparation blank results are used for qualifying all sample results.

CRI Check Soln: Presently no "control" actions are associated with the CRI analyte values determined during the analysis run. The CRI sample was prepared fresh for each analytical run and is at ILM05.3 CRQL levels.

Duplicates:

EG72002-DUP1 (E707002-03):	Al396, Be313, Cr267, Co228, Cu324	<5X
	Ni231, Ag328, V292, Zn213	<5X

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EG72002-DUP2 (E707002-08):	Al396, Be313, Cr267, Co228	<5X
	Ni231, Ag328, V292, Zn213	<5X
	Cu324	* (difference > MDL)

*: Duplicate failed.
<5X: Sample and/or duplicate <5X MDL; duplicate difference acceptable (<MDL). Duplicate flagged "<5X" in LIMS.

Matrix Spikes:

EG72002-MS1 (E707002-03):	Mg279	#
EG72002-MS3 (E707002-08):	Mg279	#

Spike invalid. Sample > 2X spike concentration. Blank spike used for control purposes.

Sample element qualifications: (in order as on LIMS report)

Control limits from SOP METALS003 are used to determine acceptability of results. ESAT data are tracked in control charts to show that ESAT results conform to SOP requirements.

For Al, one of the instrument blanks had a negative value whose absolute value was greater than the MDL indicating a possible low bias. Also, the preparation blank EG72002-BLK1 had a value greater than the MDL indicating possible contamination. The Al sample results for samples E707001-03 and -04 are affected by both positive and negative blanks. Those Al sample results are flagged "J" in LIMS due to a possible unknown bias. Finally, the sample results for E707001-03 and -04 are greater than the MDL but less than the CRQL; the Al results for those samples are flagged "J" in LIMS.

For Ba, the sample results for E707001-01 thru -06, E707002-01, -03 thru -05, -07 and -08 are greater than the MDL but less than the CRQL; the Ba results for those are flagged "J" in LIMS.

For Be, the sample result for E707001-01 is greater than the MDL but less than the CRQL; the Be result for that is flagged "J" in LIMS.

For Ca, the sample result for E707002-05 is greater than the MDL but less than the CRQL; the Ca result for that is flagged "J" in LIMS.

For Cr, one of the instrument blanks had a value greater than the MDL indicating possible contamination. The Cr sample results for E707001-02 thru -06, E707002-01, -03 thru -05 and -07 thru -09 are affected by possible contamination and are flagged "K" in LIMS. Also, the sample results for E707001-02 thru -06, E707002-01 thru -05 and -07 thru -09 are greater than the MDL but less than the CRQL; the Cr results for those are flagged "J" in LIMS.

For Co, the sample results for E707001-01, -02, E707002-03, -04 and -08 are greater than the MDL but less than the CRQL; the Co results for those samples are flagged "J" in LIMS.

For Cu, the sample and duplicate were less than 5 times the MDL so duplicate difference was used for the control criteria. The duplicate difference for E707002-08/EG72002-DUP2 was greater than the MDL indicating possible poor precision. Since the other duplicate for the analysis was

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acceptable, only the Cu sample results for E707002-08 and EG72002-DUP2 are flagged "*" in LIMS due to possible poor precision. Also, the sample results for E707001-02 thru -06, E707002-01 thru -04 and -07 thru -09 are greater than the MDL but less than the CRQL; the Cu results for those are flagged "J" in LIMS.

For Fe, due to line sensitivity, sample results less than 10,000 ug/L (samples E707001-02 thru -05, E707002-01 thru -05, -07 thru -09, EG72002-BLK1, -DUP1 and -DUP2) are reported from the Fe259 line. All other Fe results (E707001-01, -06, EG72002-BS1, -MS1, -MS3) are reported from the less sensitive Fe273 line.

For Mg, due to line sensitivity, sample results less than 10,000 ug/L (E707002-05 and EG72002-BLK1) are reported from the Mg280 line. All other Mg results are reported from the less sensitive Mg279 line. Also, the preparation blank EG72002-BLK1 had a value greater than the MDL indicating possible contamination. The Mg sample results for E707002-05 and EG72002-BLK1 are affected by possible contamination and are flagged "K" in LIMS. Finally, the sample result for sample E707002-05 is greater than the MDL but less than the CRQL; the Mg result for that sample is flagged "J" in LIMS.

For Mn, the sample results for samples E707001-03, -04, E707002-01, -03, -05 and -07 are greater than the MDL but less than the CRQL; the Mn results for those samples are flagged "J" in LIMS.

For Ni, the sample results for samples E707001-01 thru -03, -05, -06, E707002-02 thru -04, -08 and -09 are greater than the MDL but less than the CRQL; the Ni results for those samples are flagged "J" in LIMS.

For K, the sample results for samples E707001-02 thru -06, E707002-01 thru -05 and -07 thru -09 are greater than the MDL but less than the CRQL; the K results for those samples are flagged "J" in LIMS.

For Na, one of the instrument blanks had a value greater than the MDL indicating possible contamination. The Na sample result for E707002-05 is affected by possible contamination and is flagged "K" in LIMS. Also, the sample result for total sample E707002-05 is greater than the MDL but less than the CRQL; the Na result for that sample is flagged "J" in LIMS.

For V, two of the instrument blanks and the preparation blank EG72002-BLK1 had values greater than the MDL indicating possible contamination. The V sample results for E707001-02, -04, E707002-04, -05, -07 and EG72002-BLK1 are affected by possible contamination and are flagged "K" in LIMS. Also, the sample results for samples E707001-01, -02, -04, E707002-04, -05 and -07 are greater than the MDL but less than the CRQL; V results for those samples are flagged "J" in LIMS.

For Zn, the sample results for samples E707001-01 thru -06, E707002-01 thru -04, -07 and -08 are greater than the MDL but less than the CRQL; Zn results for those samples are flagged "J" in LIMS.

All flagged results except those flagged "<5X" are considered estimated.

Other comments

Samples E707001-03 and -04 were identified as field duplicates. They were compared using laboratory duplicate criteria and showed good correlation for all elements except Cu. No sample

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results are qualified for field duplicate failure. Sample E707002-05 was identified as an equipment blank and contained Ba, Ca, Cr, K, Mg, Mn, Na and V. No sample results are qualified for possible field blank contamination.

It has been observed that, due to differences in the significant figures used for calculation, RPD values and some matrix spike recoveries calculated by LIMS are not correct. The correct values are included as Excel spreadsheets in the Analytical/Matrix QC Summary Report provided in the data package.

9-30-07

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

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7-30-07

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

Metals by ICP

TechLaw - ESAT Contract

Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**9600**		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**126**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**0.4**	J	0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**75100**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**22.9**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**8.0**	J	0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**28.0**		0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**12500**		12.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**60000**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	**389**		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	**22.9**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**5770**		70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**53100**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**19.6**	J	0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**35.8**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**1300**		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**114**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**75500**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**2.6**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**0.9**	J	0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**3.5**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**1750**		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**55600**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	**47.9**		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	**3.1**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**2440**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**20400**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Vanadium	**2.3**	J, K	0.2	50.0	ug/L	1	EG72002	Jul-23-07	Jul-26-07	EPA 200.7
Zinc	**11.1**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**12.4**	J	7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**50.3**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**25900**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**0.7**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**U**		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**3.3**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**698**		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**20800**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	**9.7**	J	0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	**1.2**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**1100**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**30500**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**U**		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**3.5**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**10.2**	J	7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**51.0**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**25700**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**0.6**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**U**		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**2.1**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**723**		7.0	100	"	"	"	"	"	EPA 200.7

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Magnesium	20600		15.0	5000	ug/L	1	EG72002	Jul-23-07	Jul-26-07	EPA 200.7
Manganese	9.7	J	0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	U		0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	1120	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	30400		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	0.3	J, K	0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	4.1	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	163	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	87300		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	1.3	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	2.2	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	8420		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	64600		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	92.1		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	2.0	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	3730	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	105000		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	U		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	28.0	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	59.1	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	50600		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	1.1	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	3.5	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	14500		12.0	100	"	"	"	"	"	EPA 200.7
Magnesium	61700		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	385		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	2.3	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	3140	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	79300		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	U		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	13.6	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	93.8	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	47900		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	0.4	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	2.9	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	256		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	33300		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	5.8	J	0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	U		0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	1650	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	13100		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	U		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
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W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Zinc	**7.5**	J	3.1	60.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**U**		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**202**		0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**107000**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**1.4**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**U**		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**2.6**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**3740**		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**67600**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	**64.9**		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	**2.2**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**3220**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**51400**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**U**		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**50.4**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**U**		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**123**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**70400**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**1.1**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**0.5**	J	0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**1.6**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**368**		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**41500**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Manganese	**8.0**	J	0.4	15.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Nickel	**1.0**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**2000**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**7690**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**U**		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**10.0**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	**996**		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	**150**	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	**U**		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	**80600**		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	**3.8**	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	**0.5**	J	0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	**11.5**	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	**1750**		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	**62100**		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	**28.3**		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	**4.0**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**3090**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**37800**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**1.5**	J, K	0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**22.2**	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

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Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	0.5	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	44.7	J	30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	0.5	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	U		0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	U		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	11.7	J, K	3.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	0.5	J	0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	U		0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	73.1	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	56.9	J, K	20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	0.2	J, K	0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	U		3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	18.9	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	13300		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	1.0	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	1.5	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	536		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	12100		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	11.9	J	0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	U		0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	874	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	38000		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	0.8	J, K	0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

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W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Zinc	9.7	J	3.1	60.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	81.7	J	0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	90000		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	1.2	K, J	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	0.8	J	0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	7.7	J, *	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	744		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	51200		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7
Manganese	22.0		0.4	15.0	"	"	"	"	Jul-25-07	EPA 200.7
Nickel	2.7	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	2150	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	U		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	30700		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	U		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	12.5	J	3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aluminum	U		7.1	200	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Barium	210		0.5	200	"	"	"	"	"	EPA 200.7
Beryllium	U		0.2	5.0	"	"	"	"	"	EPA 200.7
Calcium	100000		30.0	5000	"	"	"	"	"	EPA 200.7
Chromium	1.2	J, K	0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Cobalt	U		0.4	50.0	"	"	"	"	Jul-25-07	EPA 200.7
Copper	2.2	J	0.8	25.0	"	"	"	"	"	EPA 200.7
Iron	9400		7.0	100	"	"	"	"	"	EPA 200.7
Magnesium	69000		15.0	5000	"	"	"	"	Jul-26-07	EPA 200.7

7-30-07

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

Metals by ICP

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W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Manganese	**62.0**		0.4	15.0	ug/L	1	EG72002	Jul-23-07	Jul-25-07	EPA 200.7
Nickel	**1.5**	J	0.9	40.0	"	"	"	"	"	EPA 200.7
Potassium	**2880**	J	70.0	5000	"	"	"	"	"	EPA 200.7
Silver	**U**		0.4	10.0	"	"	"	"	Jul-26-07	EPA 200.7
Sodium	**38600**		20.0	5000	"	"	"	"	Jul-25-07	EPA 200.7
Vanadium	**U**		0.2	50.0	"	"	"	"	Jul-26-07	EPA 200.7
Zinc	**96.3**		3.1	60.0	"	"	"	"	Jul-25-07	EPA 200.7

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7-30-07

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Chicago IL, 60604	Project Manager: Warren Layne	Jul-30-07 09:52

Notes and Definitions

X	U
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
*	The duplicate analysis precision is not within control limits. The reported value is estimated.
#	Spike audit not valid. The sample concentration exceeds twice the concentration of the spike added. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

7-30-07

Stephen Connet, Chemist

000025

Method: 245.2 (CRL SOP AIG044)
Site: Muskego Sanitary Landfill
Date: July 24, 2007
Prepared by: Linda Moore

TDF: R5-01-057
TechLaw Job #: 03037.1.01.02.01.05J5.000.057
Task Order #: R5-0-01
Data Set(s): E707001, E707002

NARRATIVE

Fourteen (14) water samples from the Muskego Sanitary Landfill site were collected July 17-19, 2007 and were received properly at the proper pH at CRL on July 18-19, 2007. Sample E707002-07 was received at 1.8°C, which is below the temperature acceptance criteria. Sample results are not flagged for temperature below the acceptance criteria since it is not expected to affect the results. The samples were submitted to ESAT for analysis of mercury. The sample point identifications are on the first page of the LIMS report following this narrative. Raw data and QC forms are filed in the folder for E707001.

All water samples were digested on July 23, 2007 as LIMS batch EG71902 according to CRL SOP AIG044. Hydroxylamine was added and samples were analyzed on the PSA Millenium Analyzer on July 24, 2007. QC limits used are CRL default limits.

Because reported QC values are less than 5 times the MDL, duplicate difference criteria was used for control purposes and was acceptable in both matrix duplicates. Matrix duplicates EG71902-DUP1 and EG71902-DUP2 are flagged "<5X" in LIMS. All other QC values were within limits. All samples were analyzed within the holding time limit. All sample results were acceptable.

Sample E707002-05 was identified as an Equipment Blank and showed no evidence of contamination. Samples E707001-03 and -04 were identified as a field duplicate pair and showed good correlation in comparison to laboratory duplicate criteria.

QC reports which include analytical QC are provided as an Excel spreadsheet. It has been observed that, due to differences in the significant figures used for calculation and rounding of reported values, RPD values and some matrix spike recoveries calculated by LIMS are not correct. The correct values are included in the Excel spreadsheet/ Analytical/Matrix QC Summary Report provided in the data package.

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-27-07 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

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Cold Vapor Analyses

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Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

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Cold Vapor Analyses

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S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Mercury	U		0.1	0.5	ug/L	1	EG71902	Jul-23-07	Jul-24-07	EPA 245.2

000014

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Notes and Definitions

< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

000015

Linda Moore 7/27/07
Linda Moore, Chemist

Case Narrative

DATE: August 03, 2007

PROJECT NAME: Muskego Sanitary Landfill

DATA SET NUMBER: E707001 and E707002

ANALYST(s): John Walton, ESAT

I. CASE DESCRIPTION:

The laboratory received Fourteen (14) water samples Lab ID E707001-01 through -06, E707002-01 through -05 and E707002-07 through -09 from Muskego Sanitary Landfill between July 18 and 19, 2007 for Pesticides and Aroclor analyses. All samples were collected between July 17 and 19, 2007.

Samples E707001-01 through -06 and E707002-01 through -05 were extracted on July 19, 2007. Samples E707002-07 through -09 were extracted on July 20, 2007. All of the samples were extracted per CRL SOP GC011. The samples were analyzed on July 27, 2007.

The temperature at sample receipt for sample E707002-07 (1.8 °C) was outside the required sample preservation temperature of 4 ± 2 °C. There is no regional guidance for qualifying the data based on this criterion.

Extraction holding time requirement of 7 days for water samples as well as analysis time of 40 days for sample extracts was met for all of the samples. No other problems were observed.

II. METHOD QUALITY CONTROL:

1. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results:

Samples E707002-03 and E707002-08 were designated to be used as sources for MS/MSD QC samples. Sample E707002-03 is the source for QC samples EG71901-MS1/-MSD1 and sample E707002-08 is the source for QC samples EG72005-MS1/-MSD1.

The following analytes were outside their respective QC

Limits in the listed MS/MSD QC samples:

Sample	Analytes	%Recovery	QC Limits
EG71901-MS1	delta-BHC	62	67 - 123
EG71901-MSD1		54	
EG71901-MSD1	4,4'-DDE	66	71 - 108
EG71901-MSD1	4,4'-DDT	72	73 - 120
EG71901-MSD1	Aldrin	54	68 - 107
EG71901-MSD1	alpha-BHC	64	70 - 115
EG71901-MSD1	alpha-Chlordane	64	71 - 112
EG71901-MSD1	Dieldrin	68	73 - 113
EG71901-MSD1	Endosulfan I	68	73 - 102
EG71901-MSD1	Endosulfan II	72	75 - 108
EG71901-MSD1	gamma-BHC (Lindane)	66	72 - 115
EG71901-MSD1	gamma-Chlordane	64	73 - 106
EG71901-MSD1	Heptachlor	62	70 - 110
EG71901-MSD1	Heptachlor epoxide	64	71 - 113

The results of the source sample, E707002-03, for delta-BHC will be qualified as follows: non-detects will be qualified as estimated **"UJ"** and detects will be qualified as estimated **"J"**. For the other analytes listed in the table, no action is taken based on the results of the MS or MSD data alone.

2. Laboratory Control Sample (LCS) & Duplicate:

The %Recovery for Aldrin (68.0%) was below the accepted QC Limits of 69.9 - 97.1% in sample EG71901-BS1. Since the results for this compound are only out in the BS, the data will not need to be qualified.

3. Surrogate Spike Results:

The %Recovery for Decachlorobiphenyl was below the accepted QC Limits of 31 - 142% in both the Pesticide analysis (30.0%) and the Aroclor analysis (30.0%) for sample E707002-04. Since only one surrogate was outside the QC Limits, no action is taken in this case.

III. SAMPLE RESULTS:

An experienced GC Chemist examined the chromatograms for each sample to determine if any of the Aroclors on the analytes list were present. Aroclor 1660, which was quantitatively analyzed for, was not detected in the Method

Blank or any of the client samples. Upon careful visual inspection of all of the samples chromatograms, it was determined that none of the other Aroclors on the analytes list are present in any of the samples.

The following are the QC samples for samples E707001-01 through -06 and E707002-01 through -05 extracted on July 19, 2007:

EG71901-BLK1: Method Blank
EG71901-BS1: Pesticide Blank Spike
EG71901-BSD1: Pesticide Blank Spike Duplicate

The following are the QC samples for samples E707002-07 through -09 extracted on July 20, 2007:

EG72005-BLK1: Method Blank
EG72005-BS1: Pesticide Blank Spike
EG72005-BSD1: Pesticide Blank Spike Duplicate

Due to extractor problems, samples E707001-01 and E707002-05 failed to extract. They were re-extracted, analyzed and reported as E707001-01RE1 and E707002-05RE1.

Samples E707001-03 and E707001-04 are classified as Field Duplicates. None of the analytes of interest were detected in either of these samples. The data is not qualified based on the results of Field Duplicates.

Sample E707002-05 was classified as an Equipment Blank. None of the analytes of interest were detected in this sample. The data is not qualified based on the results of Equipment Blanks.

The temperature at sample receipt for sample E707002-07 (1.8 °C) was outside the required sample preservation temperature of 4 ± 2 °C. There is no regional guidance for qualifying the data based on this criterion. The end user must determine if any action needs to be taken.

All Quality Control measures not specifically discussed in this narrative met quality criteria stated in the SOPs.

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

John Walton, chemist

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

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Near W208S8861 Hillendale A (ML32 E) (E707001-01RE1) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.179			*70.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.115			*45.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.231	1.28	"	"	"	"	"	EPA 8082
PCB-1221	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1232	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1242	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1248	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1254	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1260	U		0.462	1.28	"	"	"	"	"	EPA 8082
PCB-1262	U		0.256	1.28	"	"	"	"	"	EPA 8082
PCB-1268	U		0.256	1.28	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.192			*75.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.103			*40.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.045	0.064	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.055	0.064	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.050	0.064	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.045	0.064	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.055	0.064	"	"	"	"	"	EPA 8081A
Aldrin	U		0.037	0.064	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.051	0.064	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.046	0.064	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.051	0.064	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.045	0.064	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.036	0.064	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.045	0.064	"	"	"	"	"	EPA 8081A
Endrin	U		0.045	0.064	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.044	0.064	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.036	0.064	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.050	0.064	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.027	0.064	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.042	0.064	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.049	0.064	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.037	0.064	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.134			*65.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.175			*85.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.186	1.03	"	"	"	"	"	EPA 8082
PCB-1221	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1232	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1242	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1248	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1254	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1260	U		0.371	1.03	"	"	"	"	"	EPA 8082
PCB-1262	U		0.206	1.03	"	"	"	"	"	EPA 8082
PCB-1268	U		0.206	1.03	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.144			*70.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.175			*85.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.052	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.044	0.052	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.040	0.052	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.052	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.044	0.052	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.052	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.041	0.052	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.037	0.052	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.052	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.052	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.040	0.052	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.052	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.052	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.039	0.052	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.052	"	"	"	"	"	EPA 8081A

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.151			*70.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.172			*80.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.194	1.08	"	"	"	"	"	EPA 8082
PCB-1221	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1232	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1242	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1248	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1254	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1260	U		0.387	1.08	"	"	"	"	"	EPA 8082
PCB-1262	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1268	U		0.215	1.08	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.161			*75.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.183			*85.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.038	0.054	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.054	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.042	0.054	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.038	0.054	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.054	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.054	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.054	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.039	0.054	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.054	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.038	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.054	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.038	0.054	"	"	"	"	"	EPA 8081A
Endrin	U		0.038	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.037	0.054	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.042	0.054	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.023	0.054	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.054	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.041	0.054	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.054	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.160			*75.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.170			*80.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.191	1.06	"	"	"	"	"	EPA 8082
PCB-1221	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1232	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1242	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1248	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1254	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1260	U		0.383	1.06	"	"	"	"	"	EPA 8082
PCB-1262	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1268	U		0.213	1.06	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.170			*80.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.181			*85.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.037	0.053	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.053	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.037	0.053	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.053	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.053	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.053	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.053	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.053	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.053	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
Endrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.036	0.053	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.053	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.053	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.053	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.053	"	"	"	"	"	EPA 8081A

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.138			*65.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.191			*90.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.191	1.06	"	"	"	"	"	EPA 8082
PCB-1221	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1232	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1242	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1248	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1254	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1260	U		0.383	1.06	"	"	"	"	"	EPA 8082
PCB-1262	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1268	U		0.213	1.06	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.138			*65.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.191			*90.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.037	0.053	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.053	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.037	0.053	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.053	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.053	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.053	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.053	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.053	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.053	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
Endrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.036	0.053	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.053	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.053	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.053	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.053	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.161			*75.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.140			*65.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.194	1.08	"	"	"	"	"	EPA 8082
PCB-1221	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1232	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1242	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1248	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1254	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1260	U		0.387	1.08	"	"	"	"	"	EPA 8082
PCB-1262	U		0.215	1.08	"	"	"	"	"	EPA 8082
PCB-1268	U		0.215	1.08	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.151			*70.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.151			*70.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.038	0.054	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.054	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.042	0.054	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.038	0.054	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.054	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.054	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.054	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.039	0.054	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.054	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.038	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.054	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.038	0.054	"	"	"	"	"	EPA 8081A
Endrin	U		0.038	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.037	0.054	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.054	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.042	0.054	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.023	0.054	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.054	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.041	0.054	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.054	"	"	"	"	"	EPA 8081A

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.163			*80.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.184			*90.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.184	1.02	"	"	"	"	"	EPA 8082
PCB-1221	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1232	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1242	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1248	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1254	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1260	U		0.367	1.02	"	"	"	"	"	EPA 8082
PCB-1262	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1268	U		0.204	1.02	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.163			*80.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.194			*95.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.051	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.044	0.051	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.040	0.051	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.051	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.044	0.051	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.051	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.041	0.051	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.037	0.051	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.041	0.051	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.051	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.051	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.051	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.040	0.051	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.021	0.051	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.051	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.039	0.051	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.051	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.160			*75.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-27-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.160			*75.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.191	1.06	"	"	"	"	"	EPA 8082
PCB-1221	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1232	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1242	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1248	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1254	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1260	U		0.383	1.06	"	"	"	"	"	EPA 8082
PCB-1262	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1268	U		0.213	1.06	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.149			*70.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.170			*80.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.037	0.053	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.053	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.037	0.053	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.053	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.053	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.053	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.053	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.053	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.053	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
Endrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.036	0.053	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.053	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.053	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.053	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.053	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.163			*80.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.194			*95.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.184	1.02	"	"	"	"	"	EPA 8082
PCB-1221	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1232	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1242	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1248	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1254	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1260	U		0.367	1.02	"	"	"	"	"	EPA 8082
PCB-1262	U		0.204	1.02	"	"	"	"	"	EPA 8082
PCB-1268	U		0.204	1.02	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.153			*75.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.194			*95.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.051	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.044	0.051	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.040	0.051	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.051	"	"	"	"	"	EPA 8081A
delta-BHC	U	J	0.044	0.051	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.051	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.041	0.051	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.037	0.051	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.041	0.051	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.051	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.051	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.051	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.051	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.040	0.051	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.021	0.051	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.051	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.039	0.051	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.051	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.170			*75.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.0682			*30.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.205	1.14	"	"	"	"	"	EPA 8082
PCB-1221	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1232	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1242	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1248	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1254	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1260	U		0.409	1.14	"	"	"	"	"	EPA 8082
PCB-1262	U		0.227	1.14	"	"	"	"	"	EPA 8082
PCB-1268	U		0.227	1.14	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.170			*75.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.0682			*30.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.040	0.057	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.049	0.057	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.044	0.057	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.040	0.057	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.049	0.057	"	"	"	"	"	EPA 8081A
Aldrin	U		0.033	0.057	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.045	0.057	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.041	0.057	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.045	0.057	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.040	0.057	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.032	0.057	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.040	0.057	"	"	"	"	"	EPA 8081A
Endrin	U		0.040	0.057	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.039	0.057	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.032	0.057	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.044	0.057	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.024	0.057	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.038	0.057	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.043	0.057	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.033	0.057	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

EB 2 Equipment Blank (E707002-05RE1) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.177			*85.0 %*		*39.1-110*	*EG71901*	*Jul-19-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.104			*50.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.188	1.04	"	"	"	"	"	EPA 8082
PCB-1221	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1232	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1242	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1248	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1254	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1260	U		0.375	1.04	"	"	"	"	"	EPA 8082
PCB-1262	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1268	U		0.208	1.04	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.167			*80.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.104			*50.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.052	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.045	0.052	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.052	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.045	0.052	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.052	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.042	0.052	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.052	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.042	0.052	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.052	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.052	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.052	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.052	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.052	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.052	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.138			*65.0 %*		*39.1-110*	*EG72005*	*Jul-20-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.191			*90.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.191	1.06	"	"	"	"	"	EPA 8082
PCB-1221	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1232	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1242	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1248	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1254	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1260	U		0.383	1.06	"	"	"	"	"	EPA 8082
PCB-1262	U		0.213	1.06	"	"	"	"	"	EPA 8082
PCB-1268	U		0.213	1.06	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.138			*65.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.202			*95.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.037	0.053	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.046	0.053	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.037	0.053	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.046	0.053	"	"	"	"	"	EPA 8081A
Aldrin	U		0.031	0.053	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.043	0.053	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.053	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.043	0.053	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.030	0.053	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
Endrin	U		0.037	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.036	0.053	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.030	0.053	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.053	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.053	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.035	0.053	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.053	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.031	0.053	"	"	"	"	"	EPA 8081A

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.156			*75.0 %*		*39.1-110*	*EG72005*	*Jul-20-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.146			*70.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.188	1.04	"	"	"	"	"	EPA 8082
PCB-1221	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1232	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1242	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1248	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1254	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1260	U		0.375	1.04	"	"	"	"	"	EPA 8082
PCB-1262	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1268	U		0.208	1.04	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.146			*70.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.146			*70.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.052	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.045	0.052	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.052	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.045	0.052	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.052	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.042	0.052	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.052	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.042	0.052	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.052	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.052	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.052	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.052	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.052	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.052	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD

TechLaw - ESAT Contract

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Tetrachloro-meta-xylene	0.125			*60.0 %*		*39.1-110*	*EG72005*	*Jul-20-07*	*Jul-28-07*	EPA 8082
Surrogate: Decachlorobiphenyl	0.156			*75.0 %*		*31-142*	"	"	"	EPA 8082
PCB-1016	U		0.188	1.04	"	"	"	"	"	EPA 8082
PCB-1221	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1232	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1242	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1248	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1254	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1260	U		0.375	1.04	"	"	"	"	"	EPA 8082
PCB-1262	U		0.208	1.04	"	"	"	"	"	EPA 8082
PCB-1268	U		0.208	1.04	"	"	"	"	"	EPA 8082
Surrogate: Tetrachloro-meta-xylene	0.125			*60.0 %*		*39.1-110*	"	"	"	EPA 8081A
Surrogate: Decachlorobiphenyl	0.167			*80.0 %*		*31-142*	"	"	"	EPA 8081A
alpha-BHC	U		0.036	0.052	"	"	"	"	"	EPA 8081A
gamma-BHC (Lindane)	U		0.045	0.052	"	"	"	"	"	EPA 8081A
beta-BHC	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Heptachlor	U		0.036	0.052	"	"	"	"	"	EPA 8081A
delta-BHC	U		0.045	0.052	"	"	"	"	"	EPA 8081A
Aldrin	U		0.030	0.052	"	"	"	"	"	EPA 8081A
Heptachlor epoxide	U		0.042	0.052	"	"	"	"	"	EPA 8081A
gamma-Chlordane	U		0.038	0.052	"	"	"	"	"	EPA 8081A
alpha-Chlordane	U		0.042	0.052	"	"	"	"	"	EPA 8081A
Endosulfan I	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDE	U		0.029	0.052	"	"	"	"	"	EPA 8081A
Dieldrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
Endrin	U		0.036	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDD	U		0.035	0.052	"	"	"	"	"	EPA 8081A
Endosulfan II	U		0.029	0.052	"	"	"	"	"	EPA 8081A
4,4'-DDT	U		0.041	0.052	"	"	"	"	"	EPA 8081A
Endrin aldehyde	U		0.022	0.052	"	"	"	"	"	EPA 8081A
Endosulfan sulfate	U		0.034	0.052	"	"	"	"	"	EPA 8081A
Methoxychlor	U		0.040	0.052	"	"	"	"	"	EPA 8081A
Endrin ketone	U		0.030	0.052	"	"	"	"	"	EPA 8081A

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
TechLaw - ESAT Contract

Batch EG71901 - EPA 3535

Blank (EG71901-BLK1) — **Prepared: Jul-19-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.160*				*ug/L*	*0.200*		*80.0*	*39.1-110*		
Surrogate: Tetrachloro-meta-xylene	*0.170*				*"*	*0.200*		*85.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.160*				*"*	*0.200*		*80.0*	*31-142*		
Surrogate: Decachlorobiphenyl	*0.160*				*"*	*0.200*		*80.0*	*31-142*		
PCB-1016	U		0.180	1.00	"						
alpha-BHC	U		0.035	0.050	"						
PCB-1221	U		0.200	1.00	"						
gamma-BHC (Lindane)	U		0.043	0.050	"						
beta-BHC	U		0.039	0.050	"						
PCB-1232	U		0.200	1.00	"						
Heptachlor	U		0.035	0.050	"						
PCB-1242	U		0.200	1.00	"						
delta-BHC	U		0.043	0.050	"						
PCB-1248	U		0.200	1.00	"						
Aldrin	U		0.029	0.050	"						
PCB-1254	U		0.200	1.00	"						
Heptachlor epoxide	U		0.040	0.050	"						
PCB-1260	U		0.360	1.00	"						
PCB-1262	U		0.200	1.00	"						
gamma-Chlordane	U		0.036	0.050	"						
PCB-1268	U		0.200	1.00	"						
alpha-Chlordane	U		0.040	0.050	"						
Endosulfan I	U		0.035	0.050	"						
4,4'-DDE	U		0.028	0.050	"						
Dieldrin	U		0.035	0.050	"						
Endrin	U		0.035	0.050	"						
4,4'-DDD	U		0.034	0.050	"						
Endosulfan II	U		0.028	0.050	"						
4,4'-DDT	U		0.039	0.050	"						
Endrin aldehyde	U		0.021	0.050	"						
Endosulfan sulfate	U		0.033	0.050	"						
Methoxychlor	U		0.038	0.050	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
TechLaw - ESAT Contract

Batch EG71901 - EPA 3535

Blank (EG71901-BLK1) — **Prepared: Jul-19-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Endrin ketone	U		0.029	0.050	ug/L						

LCS (EG71901-BS1) — **Prepared: Jul-19-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.370*				*ug/L*	*0.500*		*74.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.400*				*"*	*0.500*		*80.0*	*31-142*		
alpha-BHC	**0.410**		0.035	0.050	"	0.500		82.0	71.4-102.3		
gamma-BHC (Lindane)	**0.410**		0.043	0.050	"	0.500		82.0	70.5-109.3		
beta-BHC	**0.420**		0.039	0.050	"	0.500		84.0	72.4-105.5		
Heptachlor	**0.410**		0.035	0.050	"	0.500		82.0	64.9-113.5		
delta-BHC	**0.330**		0.043	0.050	"	0.500		66.0	45.6-111.4		
Aldrin	**0.340**		0.029	0.050	"	0.500		68.0	69.9-97.1		
Heptachlor epoxide	**0.400**		0.040	0.050	"	0.500		80.0	71.6-103.1		
gamma-Chlordane	**0.390**		0.036	0.050	"	0.500		78.0	68.2-112.6		
alpha-Chlordane	**0.390**		0.040	0.050	"	0.500		78.0	65.6-104.8		
Endosulfan I	**0.400**		0.035	0.050	"	0.500		80.0	66.8-103.8		
4,4'-DDE	**0.380**		0.028	0.050	"	0.500		76.0	72.3-99.9		
Dieldrin	**0.390**		0.035	0.050	"	0.500		78.0	72.5-103.5		
Endrin	**0.380**		0.035	0.050	"	0.500		76.0	64.1-118.5		
4,4'-DDD	**0.380**		0.034	0.050	"	0.500		76.0	65.5-114.9		
Endosulfan II	**0.390**		0.028	0.050	"	0.500		78.0	72.6-110.5		
4,4'-DDT	**0.390**		0.039	0.050	"	0.500		78.0	67.1-131.8		
Endrin aldehyde	**0.360**		0.021	0.050	"	0.500		72.0	62.5-97.9		
Endosulfan sulfate	**0.410**		0.033	0.050	"	0.500		82.0	60.6-132.5		
Methoxychlor	**0.420**		0.038	0.050	"	0.500		84.0	51.5-169.5		
Endrin ketone	**0.380**		0.029	0.050	"	0.500		76.0	62.5-136.3		

LCS Dup (EG71901-BSD1) — **Prepared: Jul-19-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.340*				*ug/L*	*0.500*		*68.0*	*39.1-110*		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
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Batch EG71901 - EPA 3535

LCS Dup (EG71901-BSD1) **Prepared: Jul-19-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Decachlorobiphenyl	*0.440*				*ug/L*	*0.500*		*88.0*	*31-142*		
alpha-BHC	0.410		0.035	0.050	"	0.500		82.0	71.4-102.3	0.00	30
gamma-BHC (Lindane)	0.420		0.043	0.050	"	0.500		84.0	70.5-109.3	2.41	30
beta-BHC	0.430		0.039	0.050	"	0.500		86.0	72.4-105.5	2.35	30
Heptachlor	0.400		0.035	0.050	"	0.500		80.0	64.9-113.5	2.47	30
delta-BHC	0.340		0.043	0.050	"	0.500		68.0	45.6-111.4	2.99	30
Aldrin	0.350		0.029	0.050	"	0.500		70.0	69.9-97.1	2.90	30
Heptachlor epoxide	0.410		0.040	0.050	"	0.500		82.0	71.6-103.1	2.47	30
gamma-Chlordane	0.410		0.036	0.050	"	0.500		82.0	68.2-112.6	5.00	30
alpha-Chlordane	0.410		0.040	0.050	"	0.500		82.0	65.6-104.8	5.00	30
Endosulfan I	0.420		0.035	0.050	"	0.500		84.0	66.8-103.8	4.88	30
4,4'-DDE	0.420		0.028	0.050	"	0.500		84.0	72.3-99.9	10.0	30
Dieldrin	0.420		0.035	0.050	"	0.500		84.0	72.5-103.5	7.41	30
Endrin	0.430		0.035	0.050	"	0.500		86.0	64.1-118.5	12.3	30
4,4'-DDD	0.430		0.034	0.050	"	0.500		86.0	65.5-114.9	12.3	30
Endosulfan II	0.430		0.028	0.050	"	0.500		86.0	72.6-110.5	9.76	30
4,4'-DDT	0.440		0.039	0.050	"	0.500		88.0	67.1-131.8	12.0	30
Endrin aldehyde	0.430		0.021	0.050	"	0.500		86.0	62.5-97.9	17.7	30
Endosulfan sulfate	0.450		0.033	0.050	"	0.500		90.0	60.6-132.5	9.30	30
Methoxychlor	0.420		0.038	0.050	"	0.500		84.0	51.5-169.5	0.00	30
Endrin ketone	0.440		0.029	0.050	"	0.500		88.0	62.5-136.3	14.6	30

Matrix Spike (EG71901-MS1) **Source: E707002-03** **Prepared: Jul-19-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.337*				*ug/L*	*0.510*		*66.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.459*				"	*0.510*		*90.0*	*31-142*		
alpha-BHC	0.367		0.036	0.051	"	0.510	U	72.0	70-115		
gamma-BHC (Lindane)	0.378		0.044	0.051	"	0.510	U	74.0	72-115		
beta-BHC	0.398		0.040	0.051	"	0.510	U	78.0	70-117		
Heptachlor	0.408		0.036	0.051	"	0.510	U	80.0	70-110		
delta-BHC	0.316		0.044	0.051	"	0.510	U	62.0	67-123		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
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Batch EG71901 - EPA 3535

Matrix Spike (EG71901-MS1) **Source: E707002-03** **Prepared: Jul-19-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aldrin	0.367		0.030	0.051	ug/L	0.510	U	72.0	68-107		
Heptachlor epoxide	0.398		0.041	0.051	"	0.510	U	78.0	71-113		
gamma-Chlordane	0.408		0.037	0.051	"	0.510	U	80.0	73-106		
alpha-Chlordane	0.408		0.041	0.051	"	0.510	U	80.0	71-112		
Endosulfan I	0.418		0.036	0.051	"	0.510	U	82.0	73-102		
4,4'-DDE	0.429		0.029	0.051	"	0.510	U	84.0	71-108		
Dieldrin	0.429		0.036	0.051	"	0.510	U	84.0	73-113		
Endrin	0.459		0.036	0.051	"	0.510	U	90.0	71-119		
4,4'-DDD	0.459		0.035	0.051	"	0.510	U	90.0	71-124		
Endosulfan II	0.449		0.029	0.051	"	0.510	U	88.0	75-108		
4,4'-DDT	0.480		0.040	0.051	"	0.510	U	94.0	73-120		
Endrin aldehyde	0.408		0.021	0.051	"	0.510	U	80.0	61-128		
Endosulfan sulfate	0.469		0.034	0.051	"	0.510	U	92.0	50-156		
Methoxychlor	0.449		0.039	0.051	"	0.510	U	88.0	45-158		
Endrin ketone	0.418		0.030	0.051	"	0.510	U	82.0	71-126		

Matrix Spike Dup (EG71901-MSD1) **Source: E707002-03** **Prepared: Jul-19-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.255*				*ug/L*	*0.510*		*50.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.388*				"	*0.510*		*76.0*	*31-142*		
alpha-BHC	0.327		0.036	0.051	"	0.510	U	64.0	70-115	11.8	30
gamma-BHC (Lindane)	0.337		0.044	0.051	"	0.510	U	66.0	72-115	11.4	30
beta-BHC	0.357		0.040	0.051	"	0.510	U	70.0	70-117	10.8	30
Heptachlor	0.316		0.036	0.051	"	0.510	U	62.0	70-110	25.4	30
delta-BHC	0.276		0.044	0.051	"	0.510	U	54.0	67-123	13.8	30
Aldrin	0.276		0.030	0.051	"	0.510	U	54.0	68-107	28.6	30
Heptachlor epoxide	0.327		0.041	0.051	"	0.510	U	64.0	71-113	19.7	30
gamma-Chlordane	0.327		0.037	0.051	"	0.510	U	64.0	73-106	22.2	30
alpha-Chlordane	0.327		0.041	0.051	"	0.510	U	64.0	71-112	22.2	30
Endosulfan I	0.347		0.036	0.051	"	0.510	U	68.0	73-102	18.7	30
4,4'-DDE	0.337		0.029	0.051	"	0.510	U	66.0	71-108	24.0	30

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
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Batch EG71901 - EPA 3535

Matrix Spike Dup (EG71901-MSD1) **Source: E707002-03** **Prepared: Jul-19-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dieldrin	**0.347**		0.036	0.051	ug/L	0.510	U	68.0	73-113	21.1	30
Endrin	**0.367**		0.036	0.051	"	0.510	U	72.0	71-119	22.2	30
4,4'-DDD	**0.367**		0.035	0.051	"	0.510	U	72.0	71-124	22.2	30
Endosulfan II	**0.367**		0.029	0.051	"	0.510	U	72.0	75-108	20.0	30
4,4'-DDT	**0.367**		0.040	0.051	"	0.510	U	72.0	73-120	26.5	30
Endrin aldehyde	**0.388**		0.021	0.051	"	0.510	U	76.0	61-128	5.13	30
Endosulfan sulfate	**0.418**		0.034	0.051	"	0.510	U	82.0	50-156	11.5	30
Methoxychlor	**0.378**		0.039	0.051	"	0.510	U	74.0	45-158	17.3	30
Endrin ketone	**0.398**		0.030	0.051	"	0.510	U	78.0	71-126	5.00	30

Batch EG72005 - EPA 3535

Blank (EG72005-BLK1) **Prepared: Jul-20-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.140*				*ug/L*	*0.200*		*70.0*	*39.1-110*		
Surrogate: Tetrachloro-meta-xylene	*0.150*				"	*0.200*		*75.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.160*				"	*0.200*		*80.0*	*31-142*		
Surrogate: Decachlorobiphenyl	*0.160*				"	*0.200*		*80.0*	*31-142*		
PCB-1016	**U**		0.180	1.00	"						
alpha-BHC	**U**		0.035	0.050	"						
PCB-1221	**U**		0.200	1.00	"						
gamma-BHC (Lindane)	**U**		0.043	0.050	"						
beta-BHC	**U**		0.039	0.050	"						
PCB-1232	**U**		0.200	1.00	"						
Heptachlor	**U**		0.035	0.050	"						
PCB-1242	**U**		0.200	1.00	"						
delta-BHC	**U**		0.043	0.050	"						
PCB-1248	**U**		0.200	1.00	"						
PCB-1254	**U**		0.200	1.00	"						
Aldrin	**U**		0.029	0.050	"						
PCB-1260	**U**		0.360	1.00	"						
Heptachlor epoxide	**U**		0.040	0.050	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

PCB/Pesticide by GC/ECD - Quality Control
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Batch EG72005 - EPA 3535

Blank (EG72005-BLK1) — **Prepared: Jul-20-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
PCB-1262	U		0.200	1.00	ug/L						
gamma-Chlordane	U		0.036	0.050	"						
alpha-Chlordane	U		0.040	0.050	"						
PCB-1268	U		0.200	1.00	"						
Endosulfan I	U		0.035	0.050	"						
4,4'-DDE	U		0.028	0.050	"						
Dieldrin	U		0.035	0.050	"						
Endrin	U		0.035	0.050	"						
4,4'-DDD	U		0.034	0.050	"						
Endosulfan II	U		0.028	0.050	"						
4,4'-DDT	U		0.039	0.050	"						
Endrin aldehyde	U		0.021	0.050	"						
Endosulfan sulfate	U		0.033	0.050	"						
Methoxychlor	U		0.038	0.050	"						
Endrin ketone	U		0.029	0.050	"						

LCS (EG72005-BS1) — **Prepared: Jul-20-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.140*				*ug/L*	*0.200*		*70.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.180*				*"*	*0.200*		*90.0*	*31-142*		
PCB-1016	8.57		0.180	1.00	"	10.0		85.7	54.3-121		
PCB-1260	8.80		0.360	1.00	"	10.0		88.0	41.4-124		

LCS Dup (EG72005-BSD1) — **Prepared: Jul-20-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.110*				*ug/L*	*0.200*		*55.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.190*				*"*	*0.200*		*95.0*	*31-142*		
PCB-1016	8.22		0.180	1.00	"	10.0		82.2	54.3-121	4.17	30
PCB-1260	9.06		0.360	1.00	"	10.0		90.6	41.4-124	2.91	30

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-03-07 12:13

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Batch EG72005 - EPA 3535

Matrix Spike (EG72005-MS1) **Source: E707002-08** **Prepared: Jul-20-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.156*				*ug/L*	*0.222*		*70.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.178*				*"*	*0.222*		*80.0*	*31-142*		
PCB-1016	**8.70**		0.200	1.11	"	11.1	U	78.3	55-99		
PCB-1260	**8.59**		0.400	1.11	"	11.1	U	77.3	55-90		

Matrix Spike Dup (EG72005-MSD1) **Source: E707002-08** **Prepared: Jul-20-07 Analyzed: Jul-28-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Tetrachloro-meta-xylene	*0.146*				*ug/L*	*0.208*		*70.0*	*39.1-110*		
Surrogate: Decachlorobiphenyl	*0.188*				*"*	*0.208*		*90.0*	*31-142*		
PCB-1016	**8.00**		0.188	1.04	"	10.4	U	76.8	55-99	8.38	30
PCB-1260	**8.55**		0.375	1.04	"	10.4	U	82.1	55-90	0.429	30

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
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Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
EG71901-MSD1	Pesticides by SPE	alpha-BHC	Exceeds lower control limit
			VERSION 5.8.5:2722
	PCB by SPE	(Water)	Result calculations based on MDL
	Pesticides by SPE	(Water)	Result calculations based on MDL
	PCB by SPE	(Water)	J-Flags used
	Pesticides by SPE	(Water)	J-Flags used
E707002-04	PCB by SPE	Decachlorobiphenyl	Exceeds lower control limit
E707002-04	Pesticides by SPE	Decachlorobiphenyl	Exceeds lower control limit
EG71901-MS1	Pesticides by SPE	delta-BHC	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	4,4'-DDE	Exceeds lower control limit
			Default Report (not modified)
EG71901-MSD1	Pesticides by SPE	Aldrin	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	gamma-BHC (Lindane)	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	Dieldrin	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	Endosulfan I	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	Endosulfan II	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	gamma-Chlordane	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	Heptachlor	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	Heptachlor epoxide	Exceeds lower control limit
EG71901-BS1	Pesticides by SPE	Aldrin	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	alpha-Chlordane	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	delta-BHC	Exceeds lower control limit
EG71901-MSD1	Pesticides by SPE	4,4'-DDT	Exceeds lower control limit

Sample, Log and Extraction Comments

E707001-01RE1	
PCB by SPE	M/E2EE0
	Added 7/19/2007 by jw
	Added 7/19/2007 by jw
Pesticides by SPE	M/E2EE0
	Added 7/19/2007 by jw
	Added 7/19/2007 by jw
E707001-02	
PCB by SPE	M/E2EE1
Pesticides by SPE	M/E2EE1
E707001-03	
PCB by SPE	M/E2EE5
Pesticides by SPE	M/E2EE5
E707001-04	
PCB by SPE	M/E2EE6: Field Duplicate of E707001-03
Pesticides by SPE	M/E2EE6: Field Duplicate of E707001-03
E707001-05	
PCB by SPE	M/E2EH3
Pesticides by SPE	M/E2EH3
E707001-06	
PCB by SPE	M/E2EH4
Pesticides by SPE	M/E2EH4
E707002-01	
PCB by SPE	M/E2EG7
Pesticides by SPE	M/E2EG7
E707002-02	
PCB by SPE	M/E2EG9
Pesticides by SPE	M/E2EG9
E707002-03	
PCB by SPE	M/E2EH0: MS/MSD
Pesticides by SPE	M/E2EH0: MS/MSD
E707002-04	
PCB by SPE	M/E2EH5
Pesticides by SPE	M/E2EH5
E707002-05RE1	
PCB by SPE	

Pesticides by SPE	Equipment Blank Added 7/20/2007 by jw Added 7/20/2007 by jw
	Equipment Blank Added 7/20/2007 by jw Added 7/20/2007 by jw
E707002-07 **PCB by SPE**	M/E2EG2
Pesticides by SPE	M/E2EG2
E707002-08 **PCB by SPE**	M/E2EG3: MS/MSD
Pesticides by SPE	M/E2EG3: MS/MSD
E707002-09 **PCB by SPE**	M/E2EH1
Pesticides by SPE	M/E2EH1

CASE NARRATIVE

DATE: July 28, 2007

PROJECT NAME: Muskego Sanitary Landfill

ANALYST: James D. Burden, ESAT

I CASE DESCRIPTION:

ESAT was tasked with the analysis of semivolatiles for fourteen (14) water samples from Muskego Sanitary Landfill site. The samples were taken on 07/17/07, 7/18/07 and 07/19/07. They were received at CRL on 07/18/07 through 07/19/07. The water samples were extracted by liquid/liquid on 07/23/07, within the 7 day hold time specified by the method. All extracts were run on 07/26/07 and 07/27/07 using GCMS#2 in accordance with CRL SOP MS026. The analysis was performed within the 40 day hold time for extracts. Two samples (E707002-03 and -08) were sampled as a field designated MS/MSD. The results are transmitted in the report following this narrative.

II INSTRUMENT QUALITY CONTROLS:

1. Initial Calibration:

An acceptable instrument calibration is required before samples can be analyzed. An initial calibration was performed on 07/25/2007 on GCMS#2. The QC criteria for acceptable initial calibration states that each analyte's %RSD must be ≤30% and there can be no more than 6 outliers.

For the initial calibration run 07/25/2007, all compounds were within acceptance criteria with the exception of Hexachlorocyclopentadiene (40 %RSD), 2-Nitroaniline (31 %RSD), 2,4-Dinitrophenol (35 %RSD) and 4,6-Dinitro-2-methylphenol (37 %RSD). All hits for these compounds will be flagged "J" all non-detects will be flagged "UJ" in the associated samples.

The compounds Hexachlorocylclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Pentachlorophenol were analyzed using a 3 point curve from 25 ug/mL to 100 ug/mL on column. The reporting limit for these compounds is normally 25 ug/L, so the elimination of the two bottom points does not result in an elevated detection limit for these compounds. 2-Nitrophenol was run with a 4 point curve from10 ug/mL to 100mL. 2-Nitrophenol also has a normal reporting limit of 25 ug/L and is unaffected by dropping the low point.

2. Continuing Calibrations:

An acceptable CC is required before samples can be analyzed, unless they follow an acceptable calibration curve. The QC criteria for acceptable CC states that each analyte's %D must be ≤25% and there can be no more than 6 outliers.

The continuing calibration analyzed on 07/26/07 at 1525 was acceptable for all reported compounds with the exception of Hexachlorocyclopentadiene (41 %D). Hits for this compound in associated samples will be qualified "J", non-detects will be qualified "UJ".

The continuing calibration analyzed on 07/27/07 at 0045 was acceptable for all reported compounds with the exception of Hexachlorocyclopentadiene (42 %D). Hits for this compound in associated samples will be qualified "J", non-detects will be qualified "UJ".

III Method Quality Control

1. Method Blank

A method blank was run with this extraction set to check for interferences and contamination. The method blank was non-detect for all compounds with the exception of Bis-(2ethylhexyl)phthalate which was detected at 2.57 ug/L, which is below the CRQL of 5. Regional guidance does not qualify the data for blank contamination.

2. Blank Spike/Spike Duplicate Results

A blank spike and blank spike duplicate was performed with this sample set. All compound recoveries met the statistical limits in the LIMS system with the following exceptions:

For extraction batch EG72003, the % recovery for 2,4-Dinitrophenol (22 %Rec) was below the lower control limit in sample EG72003-BSD1. Since this compound was only out in one of the two blank spikes, no flags are required.

4-Bromophenyl-phenyl ether and 4-Chloroaniline were outside the control limits for relative percent difference (%RPD). Regional guidance does not require any flags for this outlier.

3. Surrogate Recovery

Sample E707002-03 had 2-Fluorophenol (0.9 %Rec), Phenol-d5 (4.6 %Rec) and Nitrobenzene-d5 (0.8 %Rec) below acceptance limits. Therefore, the compounds in the sample will be flagged "L" for positive hits and non-detects will be flagged "R" in the acid fraction only. The compounds in the base/neutral fraction of this sample will not be flagged as only one surrogate was outside control limits.

Sample E707001-06 had 2-Fluorophenol (2.5 %Rec), Phenol-d5 (9.4 %Rec) and 2,4,6-Tribromophenol (7.5 %Rec) below acceptance limits. Therefore, the compounds in the acid fraction of the sample will be flagged "L" for positive hits and non-detects will be flagged "R". The compounds in the base/neutral fraction of this sample will not be flagged as all base/neutral surrogates were acceptable.

4. Matrix Spikes/Matrix Spike Duplicates

For extraction batch EG72003 all compounds in the matrix spike/matrix spike duplicates were within control limits with the following exception: EG72003-MS2 was above acceptance criteria for 4-Chloroaniline (96 %Rec). No flags are required as the listed compound was not outside criteria in both spikes.

IV SAMPLE RESULTS:

All quality control measures not specifically discussed in this narrative met quality criteria stated in the SOP.

Two samples (E707002-03 and -08) were sampled as a field designated MS/MSD.

For extraction batch EG72003 the following are the quality control samples associated with the batch:
EG72003-BLK1 is the method extraction blank.
EG72003-BS1 and EG72003 -BSD1 are the blank spike and blank spike duplicate.
EG72003-MS1 and EG72003-MSD1 are the matrix spike/matrix spike duplicate of E707002-03.
EG72003-MS2 and EG72003-MSD2 are the matrix spike/matrix spike duplicate of E707002-08.

Samples E707001-03 and E707001-04 were identified as field duplicates in this SDG. Sample E707002-05 was identified as an equipment blank. No compounds were detected above the CRQL in any of these samples.

Manual Calculation Sheet for Bis-(2-ethylhexyl)phthalate in E707001-06 (file 2E07260711.D).

$$ug / L = \frac{(Ax \times Is \times Vi \times Vt)}{(Ais \times ARF \times Volx)}$$

Ax= Area of the characteristic ion for the compound to be measured
Ais= Area of the characteristic ion for the internal standard
Is= Amount of internal standard injected in nanograms (ng)
Vol= Volume of soil extracted in mL
Vi= Volume of extract injected in microliters (μL)
Vt= Volume of the concentrated extract in microliters (μL)
ARF= Average Response Factor for the compound from the calibration curve

$$ug / L = \frac{(350179 \times 50 \times 1.0 \times 1000)}{(6883467 \times .787 \times 970)}$$

Concentration = 3.3 μg/L. The value reported is 3.3 μg/L.

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

James D. Burden, ESAT Team Leader

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Near W208S8861 Hillendale A (ML32 E)

E707001-01(Water)
Sampled: Jul-17-07 16:15
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Terphenyl-dl4	27.5			*54.4 %*		*1-163*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: Phenol-d5	29.3			*57.9 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	39.0			*77.3 %*		*40-113*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	27.8			*55.0 %*		*23-102*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	33.6			*66.5 %*		*18-111*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	35.0			*69.3 %*		*7-130*	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.7	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	3.4	J	2.3	5.1	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625
Pyrene	U		3.0	5.1	"	"	"	"	"	EPA 625
Phenol	U		0.7	5.1	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.6	25	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.5	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.1	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Near W208S8861 Hillendale A (ML32 E)

E707001-01(Water)
Sampled: Jul-17-07 16:15
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Fluoranthene	U		3.6	5.1	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachlorocyclopentadiene	U	J	2.8	25	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.8	25	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.6	5.1	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.1	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.1	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	25	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	25	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.6	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Near W208S8861 Hillendale A (ML32 E)

E707001-01(Water)
Sampled: Jul-17-07 16:15
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Bromophenyl phenyl ether	U		0.9	5.1	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	25	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	25	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	25	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.0	10	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.1	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

BNear W208S8861 Hillendale B (ML33 W)

E707001-02(Water)
Sampled: Jul-17-07 15:50
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Terphenyl-dl4	36.4			*71.3 %*		*1-163*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: 2-Fluorobiphenyl	37.5			*73.6 %*		*7-130*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	37.1			*72.8 %*		*23-102*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	41.9			*82.1 %*		*40-113*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	41.3			*81.0 %*		*18-111*	"	"	"	EPA 625
Surrogate: Phenol-d5	36.5			*71.5 %*		*26-111*	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.1	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.3	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.1	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.1	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.6	26	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.1	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

BNear W208S8861 Hillendale B (ML33 W)

E707001-02(Water)
Sampled: Jul-17-07 15:50
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Benzo (a) anthracene	U		0.9	5.1	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachloroethane	U		2.8	5.1	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.1	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.1	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.1	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.8	26	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	26	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.1	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	26	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.1	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	26	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

BNear W208S8861 Hillendale B (ML33 W)
E707001-02(Water)
Sampled: Jul-17-07 15:50
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
3 & 4-Methylphenol	U		2.0	10	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.6	5.1	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	26	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.1	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry (ML19)

E707001-03(Water)
Sampled: Jul-17-07 18:02
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Terphenyl-dl4	38.9			*73.1 %*		*1-163*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: Phenol-d5	35.1			*65.9 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	39.0			*73.3 %*		*23-102*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	38.0			*71.5 %*		*18-111*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	39.9			*75.1 %*		*40-113*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	37.5			*70.4 %*		*7-130*	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.9	5.3	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.1	5.3	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.3	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.3	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.3	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.3	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.3	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.3	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.3	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.4	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.1	5.3	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.2	5.3	"	"	"	"	"	EPA 625
Fluoranthene	U		3.8	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.3	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.5	5.3	"	"	"	"	"	EPA 625
Pyrene	U		3.2	5.3	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.2	5.3	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.3	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.3	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	27	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.3	"	"	"	"	"	EPA 625
Naphthalene	U		1.2	5.3	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.5	5.3	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.3	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.3	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry (ML19)

E707001-03(Water)
Sampled: Jul-17-07 18:02
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Indeno (1,2,3-cd) pyrene	U		0.3	5.3	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachloroethane	U		2.9	5.3	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	3.0	27	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.7	5.3	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.3	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.2	5.3	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.3	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.3	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.3	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.3	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	27	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.3	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.3	5.3	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.1	11	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.3	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.3	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.3	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.3	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.3	"	"	"	"	"	EPA 625
Fluorene	U		1.2	5.3	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.3	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.7	5.3	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.3	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.3	"	"	"	"	"	EPA 625
Anthracene	U		0.9	5.3	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.3	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.3	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	27	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.3	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.5	5.3	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.3	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.2	5.3	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry (ML19)
E707001-03(Water)
Sampled: Jul-17-07 18:02
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Bromophenyl phenyl ether	U		0.9	5.3	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.6	27	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.1	27	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.2	27	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.2	5.3	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	27	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.3	5.3	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry dup (ML20)
E707001-04(Water)
Sampled: Jul-17-07 18:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Nitrobenzene-d5	38.3			*71.3 %*		*18-111*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: Terphenyl-dl4	41.9			*78.0 %*		*1-163*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	44.5			*82.7 %*		*40-113*	"	"	"	EPA 625
Surrogate: Phenol-d5	37.8			*70.3 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	42.4			*78.8 %*		*23-102*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	39.9			*74.2 %*		*7-130*	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.4	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.4	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.4	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.9	5.4	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.4	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.4	"	"	"	"	"	EPA 625
Fluoranthene	U		3.9	5.4	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.4	5.4	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.4	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.5	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.1	5.4	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.1	5.4	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.4	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.5	5.4	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.4	"	"	"	"	"	EPA 625
Pyrene	U		3.2	5.4	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.4	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.4	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	27	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	3.0	27	"	"	"	"	"	EPA 625
Naphthalene	U		1.2	5.4	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.5	5.4	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.4	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.4	"	"	"	"	"	EPA 625

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry dup (ML20)

E707001-04(Water)
Sampled: Jul-17-07 18:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Dimethyl phthalate	U		1.3	5.4	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachloroethane	U		2.9	5.4	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.2	5.4	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.7	5.4	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.4	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	27	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.4	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.5	5.4	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.4	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.2	5.4	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.4	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.4	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.4	5.4	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.2	5.4	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.2	11	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.4	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.3	5.4	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.2	5.4	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.4	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.4	"	"	"	"	"	EPA 625
Fluorene	U		1.2	5.4	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.4	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.7	5.4	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.2	5.4	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.4	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.4	"	"	"	"	"	EPA 625
Anthracene	U		0.9	5.4	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.4	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.4	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	27	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.5	5.4	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.3	5.4	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W19979 Henneberry dup (ML20)

E707001-04(Water)
Sampled: Jul-17-07 18:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloro-3-methylphenol	U		1.2	5.4	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.4	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.6	27	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.2	27	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.4	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.2	27	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	27	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W209S8543 Hillendale PW22 (ML132)

E707001-05(Water)
Sampled: Jul-17-07 17:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2-Fluorophenol	29.5			*58.4 %*		*23-102*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: 2-Fluorobiphenyl	35.9			*71.2 %*		*7-130*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	36.7			*72.7 %*		*18-111*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	34.4			*68.2 %*		*40-113*	"	"	"	EPA 625
Surrogate: Phenol-d5	27.7			*54.9 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	35.4			*70.0 %*		*1-163*	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.3	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.7	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.7	5.1	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	"	"	"	"	"	EPA 625
Phenol	U		0.7	5.1	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.8	25	"	"	"	"	"	EPA 625
Pyrene	U		3.0	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W209S8543 Hillendale PW22 (ML132)

E707001-05(Water)
Sampled: Jul-17-07 17:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Hexachlorobutadiene	U		2.5	5.1	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.6	25	"	"	"	"	"	EPA 625
Fluoranthene	U		3.6	5.1	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.6	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.8	25	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.1	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	25	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	25	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W209S8543 Hillendale PW22 (ML132)

E707001-05(Water)
Sampled: Jul-17-07 17:05
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloroaniline	U		1.6	5.1	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.1	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.1	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	25	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	25	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	25	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.0	10	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8861 Hillendale PW22 (ML242)

E707001-06(Water)
Sampled: Jul-17-07 14:00
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Nitrobenzene-d5	34.2			*66.3 %*		*18-111*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: 2-Fluorophenol	1.28			*2.48 %*		*23-102*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	34.9			*67.8 %*		*7-130*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	3.86			*7.48 %*		*40-113*	"	"	"	EPA 625
Surrogate: Phenol-d5	4.86			*9.42 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	34.6			*67.2 %*		*1-163*	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.2	"	"	"	"	"	EPA 625
Benzyl alcohol	Rejected		1.0	5.2	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	3.3	J	2.4	5.2	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.2	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.2	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.2	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.2	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.2	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.2	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.2	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.2	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.2	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.2	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.2	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.2	"	"	"	"	"	EPA 625
Pentachlorophenol	Rejected		1.6	26	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.2	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
Phenol	Rejected		0.8	5.2	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.2	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.2	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.2	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.8	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8861 Hillendale PW22 (ML242)

E707001-06(Water)
Sampled: Jul-17-07 14:00
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Hexachlorocyclopentadiene	U	J	2.9	26	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachlorobutadiene	U		2.6	5.2	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.2	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.2	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.2	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	Rejected		1.1	5.2	"	"	"	"	"	EPA 625
2-Methylphenol	Rejected		0.7	5.2	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
2-Chlorophenol	Rejected		0.8	5.2	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.2	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.2	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.2	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	Rejected		1.4	5.2	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	Rejected		1.2	5.2	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.2	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.2	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.2	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.2	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.2	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	Rejected		1.9	26	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.2	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	Rejected		1.6	5.2	"	"	"	"	"	EPA 625
2-Nitrophenol	Rejected		1.5	5.2	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.2	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.2	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.2	"	"	"	"	"	EPA 625
4-Nitrophenol	Rejected		1.6	26	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	26	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.1	26	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	Rejected		2.1	10	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8861 Hillendale PW22 (ML242)

E707001-06(Water)
Sampled: Jul-17-07 14:00
Received: Jul-18-07 15:54

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Anthracene	**U**		0.8	5.2	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
3,3'-Dichlorobenzidine	**U**		1.1	26	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	**U**		1.4	5.2	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	**Rejected**		1.5	26	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	**U**		0.9	5.2	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	**Rejected**		1.1	5.2	"	"	"	"	"	EPA 625
4-Chloroaniline	**U**		1.6	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S9298 Hillendale (ML9)
E707002-01(Water)
Sampled: Jul-18-07 11:25
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2,4,6-Tribromophenol	41.2			*79.9 %*	*40-113*		*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: Terphenyl-dl4	38.7			*75.0 %*	*1-163*		"	"	"	EPA 625
Surrogate: Phenol-d5	36.1			*69.9 %*	*26-111*		"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	41.1			*79.6 %*	*18-111*		"	"	"	EPA 625
Surrogate: 2-Fluorophenol	38.5			*74.7 %*	*23-102*		"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	40.9			*79.4 %*	*7-130*		"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.2	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.2	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.2	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.2	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.2	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.2	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.2	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.2	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.2	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.2	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	2.9	J	2.4	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.2	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.2	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.2	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.2	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.2	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.2	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.2	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.6	26	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.2	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.2	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.2	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S9298 Hillendale (ML9)

E707002-01(Water)
Sampled: Jul-18-07 11:25
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Indeno (1,2,3-cd) pyrene	U		0.3	5.2	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Hexachloroethane	U		2.8	5.2	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.2	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.2	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.2	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.2	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.2	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.2	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.2	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.2	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.1	10	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	26	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.2	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.2	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.2	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.2	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.2	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.2	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.2	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.2	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.2	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.2	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.2	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.2	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.2	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S9298 Hillendale (ML9)

E707002-01(Water)
Sampled: Jul-18-07 11:25
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
3-Nitroaniline	U		2.1	26	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	26	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	26	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.2	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.6	5.2	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.2	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	26	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W21183 Henneberry (ML22)

E707002-02(Water)
Sampled: Jul-18-07 14:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2-Fluorophenol	36.8			*68.4 %*		*23-102*	*EG72003*	*Jul-23-07*	*Jul-26-07*	EPA 625
Surrogate: Nitrobenzene-d5	42.5			*79.0 %*		*18-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	40.7			*75.7 %*		*1-163*	"	"	"	EPA 625
Surrogate: Phenol-d5	38.1			*70.8 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	42.8			*79.7 %*		*40-113*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	41.7			*77.5 %*		*7-130*	"	"	"	EPA 625
Chrysene	U		0.7	5.4	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.2	5.4	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.4	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.4	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.9	5.4	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.4	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.4	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.4	5.4	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	2.5	J	2.5	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.4	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.1	5.4	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.4	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.4	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.1	5.4	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.9	5.4	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.4	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.4	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.4	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.5	5.4	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.4	"	"	"	"	"	EPA 625
Naphthalene	U		1.2	5.4	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.4	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.3	5.4	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	3.0	27	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.7	5.4	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W21183 Henneberry (ML22)

E707002-02(Water)
Sampled: Jul-18-07 14:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Hexachlorobenzene	U		1.5	5.4	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
Fluorene	U		1.2	5.4	"	"	"	"	"	EPA 625
Fluoranthene	U		3.9	5.4	"	"	"	"	"	EPA 625
Pyrene	U		3.2	5.4	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.4	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.4	5.4	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.4	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.4	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.2	5.4	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	27	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.4	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.3	5.4	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	27	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.4	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.2	5.4	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.3	5.4	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.4	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.4	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.4	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.4	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.2	5.4	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.2	5.4	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.2	5.4	"	"	"	"	"	EPA 625
Anthracene	U		0.9	5.4	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.4	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.4	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	27	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	27	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.4	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.7	5.4	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.4	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.4	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S93W21183 Henneberry (ML22)

E707002-02(Water)
Sampled: Jul-18-07 14:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4,6-Dinitro-2-methylphenol	U	J	1.6	27	ug/L	1	EG72003	Jul-23-07	Jul-26-07	EPA 625
3-Nitroaniline	U		2.2	27	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.2	27	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.2	11	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.4	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.5	5.4	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.5	5.4	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W216S9202 Crowbar (ML25)

E707002-03(Water)
Sampled: Jul-18-07 10:00
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2,4,6-Tribromophenol	37.6			*73.7 %*		*40-113*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: 2-Fluorobiphenyl	8.87			*17.4 %*		*7-130*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	0.418			*0.820 %*		*18-111*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	0.469			*0.920 %*		*23-102*	"	"	"	EPA 625
Surrogate: Phenol-d5	2.33			*4.56 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	40.8			*80.0 %*		*1-163*	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.1	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.1	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.1	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.3	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	26	"	"	"	"	"	EPA 625
Phenol	Rejected		0.8	5.1	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
Pentachlorophenol	Rejected		1.6	26	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	Rejected		1.0	5.1	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W216S9202 Crowbar (ML25)

E707002-03(Water)
Sampled: Jul-18-07 10:00
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
Hexachloroethane	U		2.8	5.1	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	Rejected		1.2	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	Rejected		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	Rejected		2.0	10	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	Rejected		1.4	5.1	"	"	"	"	"	EPA 625
2-Nitrophenol	Rejected		1.5	5.1	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	Rejected		1.1	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	Rejected		1.6	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	Rejected		1.8	26	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	26	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Methylphenol	Rejected		0.7	5.1	"	"	"	"	"	EPA 625
4-Nitrophenol	Rejected		1.6	26	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W216S9202 Crowbar (ML25)

E707002-03(Water)
Sampled: Jul-18-07 10:00
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chlorophenyl phenyl ether	**U**		1.4	5.1	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
4-Chloroaniline	**U**		1.6	5.1	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	**Rejected**		1.1	5.1	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	**U**		0.9	5.1	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	**Rejected**		1.5	26	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	**U**		1.1	5.1	"	"	"	"	"	EPA 625
Acenaphthene	**U**		0.6	5.1	"	"	"	"	"	EPA 625

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Behind Stagecoach Inn (ML38)

E707002-04(Water)
Sampled: Jul-18-07 15:26
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2,4,6-Tribromophenol	47.8			*89.9 %*		*40-113*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: 2-Fluorophenol	39.6			*74.4 %*		*23-102*	"	"	"	EPA 625
Surrogate: Phenol-d5	39.0			*73.3 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	38.9			*73.2 %*		*7-130*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	40.9			*76.8 %*		*18-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	29.1			*54.6 %*		*1-163*	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.3	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.3	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.3	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.9	5.3	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	3.8	J	2.0	5.3	"	"	"	"	"	EPA 625
Pyrene	U		3.2	5.3	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.3	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.3	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	4.5	J	2.4	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.3	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.1	5.3	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.1	5.3	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.2	5.3	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.3	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.3	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.7	5.3	"	"	"	"	"	EPA 625
Naphthalene	U		1.2	5.3	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.5	5.3	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.2	5.3	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.3	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.3	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.3	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.3	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	3.0	27	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	27	"	"	"	"	"	EPA 625

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Behind Stagecoach Inn (ML38)

E707002-04(Water)
Sampled: Jul-18-07 15:26
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Hexachlorobenzene	U		1.5	5.3	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
Fluorene	U		1.2	5.3	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.3	"	"	"	"	"	EPA 625
Fluoranthene	U		3.8	5.3	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.3	5.3	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.3	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.9	5.3	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.3	5.3	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.2	5.3	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.3	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.3	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.3	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.3	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.3	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.3	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.3	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.2	5.3	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.3	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.3	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.3	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.3	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.3	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	27	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.5	5.3	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.3	"	"	"	"	"	EPA 625
Anthracene	U		0.9	5.3	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.3	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.3	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	27	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.3	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	27	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.7	5.3	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Behind Stagecoach Inn (ML38)

E707002-04(Water)
Sampled: Jul-18-07 15:26
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloro-3-methylphenol	U		1.2	5.3	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.3	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.6	27	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.1	27	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.2	27	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.1	11	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.3	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

EB 2 Equipment Blank
E707002-05(Water)
Sampled: Jul-18-07 14:05
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2-Fluorophenol	39.8			*76.5 %*		*23-102*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: Nitrobenzene-d5	42.3			*81.3 %*		*18-111*	"	"	"	EPA 625
Surrogate: Phenol-d5	37.2			*71.4 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	41.6			*79.9 %*		*1-163*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	41.3			*79.3 %*		*7-130*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	44.0			*84.5 %*		*40-113*	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.2	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.4	5.2	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.2	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.2	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.2	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.2	"	"	"	"	"	EPA 625
Fluoranthene	U		3.8	5.2	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.2	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.2	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.2	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.2	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.2	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.2	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.2	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.2	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.2	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.2	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.2	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.2	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.5	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

EB 2 Equipment Blank
E707002-05(Water)
Sampled: Jul-18-07 14:05
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
N-Nitrosodiphenylamine	U		1.5	5.2	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.2	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.2	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.2	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.8	5.2	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.2	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	26	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.2	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.2	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.2	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.2	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.2	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.2	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	26	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.2	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.2	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.2	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.2	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.2	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.2	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.2	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.2	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.2	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.2	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.2	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	26	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	26	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.5	5.2	"	"	"	"	"	EPA 625

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

EB 2 Equipment Blank

E707002-05(Water)
Sampled: Jul-18-07 14:05
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloroaniline	U		1.7	5.2	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.2	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.2	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.6	26	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.1	26	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.1	10	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W208S8285 Hillendale (ML11)

E707002-07(Water)
Sampled: Jul-19-07 08:40
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2-Fluorobiphenyl	39.0			*74.9 %*		*7-130*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: 2-Fluorophenol	37.9			*72.8 %*		*23-102*	"	"	"	EPA 625
Surrogate: Phenol-d5	35.3			*67.8 %*		*26-111*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	39.9			*76.6 %*		*40-113*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	38.9			*74.7 %*		*18-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	43.0			*82.5 %*		*1-163*	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.2	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.2	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.7	5.2	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.7	5.2	"	"	"	"	"	EPA 625
Fluoranthene	U		3.8	5.2	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.8	5.2	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		2.0	5.2	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.2	"	"	"	"	"	EPA 625
Carbazole	U		1.7	5.2	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.4	5.2	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.3	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.9	5.2	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.2	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.2	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.5	5.2	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.2	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.2	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.2	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.2	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.7	26	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.2	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.5	5.2	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.8	5.2	"	"	"	"	"	EPA 625
Isophorone	U		1.5	5.2	"	"	"	"	"	EPA 625

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W208S8285 Hillendale (ML11)

E707002-07(Water)
Sampled: Jul-19-07 08:40
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Indeno (1,2,3-cd) pyrene	U		0.3	5.2	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
Hexachloroethane	U		2.8	5.2	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.2	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.5	5.2	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.9	26	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.6	5.2	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.2	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.5	5.2	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.2	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.5	5.2	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.1	10	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.1	5.2	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.4	5.2	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.2	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.7	5.2	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.3	5.2	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.2	5.2	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		2.0	5.2	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.9	5.2	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.7	5.2	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.2	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		1.0	5.2	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.2	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.8	5.2	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.2	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.2	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.2	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.7	26	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.8	26	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W208S8285 Hillendale (ML11)

E707002-07(Water)
Sampled: Jul-19-07 08:40
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chlorophenyl phenyl ether	U		1.5	5.2	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
4-Chloroaniline	U		1.7	5.2	"	"	"	"	"	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.2	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.2	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.6	26	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.1	26	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		1.0	5.2	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S87W22355 Janesville (ML15)
E707002-08(Water)
Sampled: Jul-19-07 10:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: 2,4,6-Tribromophenol	38.7			*75.9 %*		*40-113*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: 2-Fluorobiphenyl	39.1			*76.7 %*		*7-130*	"	"	"	EPA 625
Surrogate: 2-Fluorophenol	35.0			*68.6 %*		*23-102*	"	"	"	EPA 625
Surrogate: Nitrobenzene-d5	39.5			*77.4 %*		*18-111*	"	"	"	EPA 625
Surrogate: Phenol-d5	33.2			*65.1 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	40.9			*80.2 %*		*1-163*	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	U		2.3	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.1	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.1	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.1	"	"	"	"	"	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
Pentachlorophenol	U		1.6	26	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S87W22355 Janesville (ML15)

E707002-08(Water)
Sampled: Jul-19-07 10:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Isophorone	U		1.4	5.1	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.8	5.1	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.1	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.8	26	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.1	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.1	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.1	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
4-Chloroaniline	U		1.6	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.1	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	26	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

S87W22355 Janesville (ML15)
E707002-08(Water)
Sampled: Jul-19-07 10:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloro-3-methylphenol	U		1.1	5.1	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.1	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	26	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	26	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.0	10	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	26	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8686 Hillendale (ML34)

E707002-09(Water)
Sampled: Jul-19-07 09:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Nitrobenzene-d5	41.0			*80.4 %*		*18-111*	*EG72003*	*Jul-23-07*	*Jul-27-07*	EPA 625
Surrogate: 2-Fluorophenol	34.2			*67.0 %*		*23-102*	"	"	"	EPA 625
Surrogate: 2-Fluorobiphenyl	42.6			*83.5 %*		*7-130*	"	"	"	EPA 625
Surrogate: Phenol-d5	33.1			*64.9 %*		*26-111*	"	"	"	EPA 625
Surrogate: Terphenyl-dl4	40.1			*78.6 %*		*1-163*	"	"	"	EPA 625
Surrogate: 2,4,6-Tribromophenol	41.1			*80.5 %*		*40-113*	"	"	"	EPA 625
Chrysene	U		0.7	5.1	"	"	"	"	"	EPA 625
Dimethyl phthalate	U		1.2	5.1	"	"	"	"	"	EPA 625
Diethyl phthalate	U		1.7	5.1	"	"	"	"	"	EPA 625
Dibenzofuran	U		1.6	5.1	"	"	"	"	"	EPA 625
Dibenz (a,h) anthracene	U		0.6	5.1	"	"	"	"	"	EPA 625
Fluoranthene	U		3.7	5.1	"	"	"	"	"	EPA 625
Di-n-butyl phthalate	U		1.9	5.1	"	"	"	"	"	EPA 625
Hexachlorobutadiene	U		2.6	5.1	"	"	"	"	"	EPA 625
Carbazole	U		1.6	5.1	"	"	"	"	"	EPA 625
Butyl benzyl phthalate	U		2.2	5.1	"	"	"	"	"	EPA 625
Bis(2-ethylhexyl)phthalate	3.1	J	2.3	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroisopropyl)ether	U		1.8	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethyl)ether	U		0.7	5.1	"	"	"	"	"	EPA 625
Bis(2-chloroethoxy)methane	U		1.0	5.1	"	"	"	"	"	EPA 625
Di-n-octyl phthalate	U		2.8	5.1	"	"	"	"	"	EPA 625
Pyrene	U		3.1	5.1	"	"	"	"	"	EPA 625
Hexachlorobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625
Hexachlorocyclopentadiene	U	J	2.9	26	"	"	"	"	"	EPA 625
Hexachloroethane	U		2.8	5.1	"	"	"	"	"	EPA 625
Indeno (1,2,3-cd) pyrene	U		0.3	5.1	"	"	"	"	"	EPA 625
Benzyl alcohol	U		1.0	5.1	"	"	"	"	"	EPA 625
Isophorone	U		1.4	5.1	"	"	"	"	"	EPA 625
N-Nitrosodi-n-propylamine	U		1.7	5.1	"	"	"	"	"	EPA 625
N-Nitrosodiphenylamine	U		1.4	5.1	"	"	"	"	"	EPA 625
Naphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
Nitrobenzene	U		1.4	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8686 Hillendale (ML34)

E707002-09(Water)
Sampled: Jul-19-07 09:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Pentachlorophenol	U		1.6	26	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
Phenanthrene	U		0.6	5.1	"	"	"	"	"	EPA 625
Phenol	U		0.8	5.1	"	"	"	"	"	EPA 625
Fluorene	U		1.1	5.1	"	"	"	"	"	EPA 625
2,4-Dimethylphenol	U		1.4	5.1	"	"	"	"	"	EPA 625
2-Nitroaniline	U	J	2.3	5.1	"	"	"	"	"	EPA 625
2-Methylphenol	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Methylnaphthalene	U		1.1	5.1	"	"	"	"	"	EPA 625
2-Chlorophenol	U		0.8	5.1	"	"	"	"	"	EPA 625
2-Chloronaphthalene	U		1.4	5.1	"	"	"	"	"	EPA 625
2,6-Dinitrotoluene	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4,5-Trichlorophenol	U		1.6	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrophenol	U	J	1.8	26	"	"	"	"	"	EPA 625
3,3'-Dichlorobenzidine	U		1.1	26	"	"	"	"	"	EPA 625
2,4-Dichlorophenol	U		1.2	5.1	"	"	"	"	"	EPA 625
2,4,6-Trichlorophenol	U		1.1	5.1	"	"	"	"	"	EPA 625
1,2,4-Trichlorobenzene	U		1.8	5.1	"	"	"	"	"	EPA 625
1,4-Dichlorobenzene	U		2.2	5.1	"	"	"	"	"	EPA 625
1,3-Dichlorobenzene	U		2.1	5.1	"	"	"	"	"	EPA 625
1,2-Dichlorobenzene	U		1.9	5.1	"	"	"	"	"	EPA 625
2,4-Dinitrotoluene	U		2.0	5.1	"	"	"	"	"	EPA 625
4-Nitroaniline	U		1.7	26	"	"	"	"	"	EPA 625
Benzo (g,h,i) perylene	U		0.9	5.1	"	"	"	"	"	EPA 625
Benzo (b) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Benzo (a) pyrene	U		0.7	5.1	"	"	"	"	"	EPA 625
Benzo (a) anthracene	U		0.9	5.1	"	"	"	"	"	EPA 625
Anthracene	U		0.8	5.1	"	"	"	"	"	EPA 625
Acenaphthylene	U		0.7	5.1	"	"	"	"	"	EPA 625
2-Nitrophenol	U		1.5	5.1	"	"	"	"	"	EPA 625
4-Nitrophenol	U		1.6	26	"	"	"	"	"	EPA 625
3 & 4-Methylphenol	U		2.0	10	"	"	"	"	"	EPA 625
4-Chlorophenyl phenyl ether	U		1.4	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

W207S8686 Hillendale (ML34)

E707002-09(Water)
Sampled: Jul-19-07 09:30
Received: Jul-19-07 13:10

Semivolatiles by GC/MS

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Chloroaniline	U		1.6	5.1	ug/L	1	EG72003	Jul-23-07	Jul-27-07	EPA 625
4-Chloro-3-methylphenol	U		1.1	5.1	"	"	"	"	"	EPA 625
4-Bromophenyl phenyl ether	U		0.9	5.1	"	"	"	"	"	EPA 625
4,6-Dinitro-2-methylphenol	U	J	1.5	26	"	"	"	"	"	EPA 625
3-Nitroaniline	U		2.0	26	"	"	"	"	"	EPA 625
Benzo (k) fluoranthene	U		1.1	5.1	"	"	"	"	"	EPA 625
Acenaphthene	U		0.6	5.1	"	"	"	"	"	EPA 625

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Blank (EG72003-BLK1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*26.0*				*ug/L*	*50.0*		*51.9*	*23-102*		
Surrogate: Phenol-d5	*28.8*				"	*50.0*		*57.6*	*26-111*		
Surrogate: Nitrobenzene-d5	*33.4*				"	*50.0*		*66.7*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*35.0*				"	*50.0*		*69.9*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*33.0*				"	*50.0*		*66.0*	*40-113*		
Surrogate: Terphenyl-dl4	*36.7*				"	*50.0*		*73.4*	*1-163*		
Phenol	U		0.7	5.0	"						
Bis(2-chloroethyl)ether	U		0.7	5.0	"						
2-Chlorophenol	U		0.8	5.0	"						
1,3-Dichlorobenzene	U		2.1	5.0	"						
1,4-Dichlorobenzene	U		2.2	5.0	"						
Benzyl alcohol	U		1.0	5.0	"						
1,2-Dichlorobenzene	U		1.9	5.0	"						
2-Methylphenol	U		0.6	5.0	"						
Bis(2-chloroisopropyl)ether	U		1.8	5.0	"						
3 & 4-Methylphenol	U		2.0	10	"						
N-Nitrosodi-n-propylamine	U		1.7	5.0	"						
Hexachloroethane	U		2.7	5.0	"						
Nitrobenzene	U		1.4	5.0	"						
Isophorone	U		1.4	5.0	"						
2-Nitrophenol	U		1.5	5.0	"						
2,4-Dimethylphenol	U		1.4	5.0	"						
Bis(2-chloroethoxy)methane	U		1.0	5.0	"						
2,4-Dichlorophenol	U		1.2	5.0	"						
1,2,4-Trichlorobenzene	U		1.8	5.0	"						
Naphthalene	U		1.1	5.0	"						
4-Chloroaniline	U		1.6	5.0	"						
Hexachlorobutadiene	U		2.5	5.0	"						
2-Methylnaphthalene	U		1.1	5.0	"						

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Blank (EG72003-BLK1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chloro-3-methylphenol	U		1.1	5.0	ug/L						
Hexachlorocyclopentadiene	U	J	2.8	25	"						
2,4,6-Trichlorophenol	U		1.1	5.0	"						
2,4,5-Trichlorophenol	U		1.6	5.0	"						
2-Chloronaphthalene	U		1.4	5.0	"						
2-Nitroaniline	U	J	2.3	5.0	"						
Acenaphthylene	U		0.7	5.0	"						
Dimethyl phthalate	U		1.2	5.0	"						
2,6-Dinitrotoluene	U		1.6	5.0	"						
Acenaphthene	U		0.6	5.0	"						
3-Nitroaniline	U		2.0	25	"						
Dibenzofuran	U		1.6	5.0	"						
2,4-Dinitrophenol	U	J	1.8	25	"						
2,4-Dinitrotoluene	U		2.0	5.0	"						
Fluorene	U		1.1	5.0	"						
4-Nitrophenol	U		1.6	25	"						
4-Chlorophenyl phenyl ether	U		1.4	5.0	"						
Diethyl phthalate	U		1.7	5.0	"						
4,6-Dinitro-2-methylphenol	U	J	1.5	25	"						
N-Nitrosodiphenylamine	U		1.4	5.0	"						
4-Nitroaniline	U		1.7	25	"						
4-Bromophenyl phenyl ether	U		0.9	5.0	"						
Hexachlorobenzene	U		1.4	5.0	"						
Pentachlorophenol	U		1.6	25	"						
Phenanthrene	U		0.6	5.0	"						
Anthracene	U		0.8	5.0	"						
Carbazole	U		1.6	5.0	"						
Di-n-butyl phthalate	U		1.9	5.0	"						
Fluoranthene	U		3.6	5.0	"						

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Blank (EG72003-BLK1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Pyrene	U		3.0	5.0	ug/L						
Butyl benzyl phthalate	U		2.2	5.0	"						
3,3'-Dichlorobenzidine	U		1.1	25	"						
Chrysene	U		0.6	5.0	"						
Benzo (a) anthracene	U		0.9	5.0	"						
Bis(2-ethylhexyl)phthalate	2.6	J	2.3	5.0	"						
Di-n-octyl phthalate	U		2.7	5.0	"						
Benzo (b) fluoranthene	U		1.1	5.0	"						
Benzo (k) fluoranthene	U		1.1	5.0	"						
Benzo (a) pyrene	U		0.7	5.0	"						
Indeno (1,2,3-cd) pyrene	U		0.3	5.0	"						
Dibenz (a,h) anthracene	U		0.6	5.0	"						
Benzo (g,h,i) perylene	U		0.9	5.0	"						

LCS (EG72003-BS1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*30.6*				*ug/L*	*50.0*		*61.2*	*23-102*		
Surrogate: Phenol-d5	*34.1*				"	*50.0*		*68.3*	*26-111*		
Surrogate: Nitrobenzene-d5	*37.9*				"	*50.0*		*75.7*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*40.2*				"	*50.0*		*80.3*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*37.9*				"	*50.0*		*75.8*	*40-113*		
Surrogate: Terphenyl-dl4	*29.8*				"	*50.0*		*59.6*	*1-163*		
Phenol	**38.2**		0.7	5.0	"	50.0		76.4	32-118		
Bis(2-chloroethyl)ether	**39.6**		0.7	5.0	"	50.0		79.2	40-107		
2-Chlorophenol	**37.4**		0.8	5.0	"	50.0		74.8	26-120		
1,3-Dichlorobenzene	**36.6**		2.1	5.0	"	50.0		73.2	19-100		
1,4-Dichlorobenzene	**38.2**		2.2	5.0	"	50.0		76.4	24-100		
Benzyl alcohol	**40.8**		1.0	5.0	"	50.0		81.7	44-143		

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

LCS (EG72003-BS1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichlorobenzene	37.8		1.9	5.0	ug/L	50.0		75.7	26-101		
2-Methylphenol	38.8		0.6	5.0	"	50.0		77.5	47-107		
Bis(2-chloroisopropyl)ether	37.8		1.8	5.0	"	50.0		75.7	40-109		
3 & 4-Methylphenol	82.7		2.0	10	"	100		82.7	45-137		
N-Nitrosodi-n-propylamine	38.1		1.7	5.0	"	50.0		76.2	53-110		
Hexachloroethane	31.2		2.7	5.0	"	50.0		62.4	16-94		
Nitrobenzene	41.9		1.4	5.0	"	50.0		83.8	43-110		
Isophorone	40.5		1.4	5.0	"	50.0		80.9	52-106		
2-Nitrophenol	39.9		1.5	5.0	"	50.0		79.9	44-120		
2,4-Dimethylphenol	41.5		1.4	5.0	"	50.0		82.9	35-103		
Bis(2-chloroethoxy)methane	41.6		1.0	5.0	"	50.0		83.3	55-105		
2,4-Dichlorophenol	40.6		1.2	5.0	"	50.0		81.2	40-124		
1,2,4-Trichlorobenzene	39.3		1.8	5.0	"	50.0		78.6	37-101		
Naphthalene	42.6		1.1	5.0	"	50.0		85.3	44-100		
4-Chloroaniline	43.2		1.6	5.0	"	50.0		86.3	60-110		
Hexachlorobutadiene	29.8		2.5	5.0	"	50.0		59.5	27-95		
2-Methylnaphthalene	40.4		1.1	5.0	"	50.0		80.8	53-103		
4-Chloro-3-methylphenol	43.0		1.1	5.0	"	50.0		86.0	47-133		
Hexachlorocyclopentadiene	17.7	J	2.8	25	"	50.0		35.4	1-92.4		
2,4,6-Trichlorophenol	44.3		1.1	5.0	"	50.0		88.5	54-118		
2,4,5-Trichlorophenol	39.0		1.6	5.0	"	50.0		78.0	60-118		
2-Chloronaphthalene	44.4		1.4	5.0	"	50.0		88.9	53-108		
2-Nitroaniline	51.6	J	2.3	5.0	"	50.0		103	72-122		
Acenaphthylene	45.2		0.7	5.0	"	50.0		90.4	59-103		
Dimethyl phthalate	23.8		1.2	5.0	"	50.0		47.5	1-127		
2,6-Dinitrotoluene	51.4		1.6	5.0	"	50.0		103	60-129		
Acenaphthene	43.4		0.6	5.0	"	50.0		86.7	60-103		
3-Nitroaniline	50.5		2.0	25	"	50.0		101	64-142		
Dibenzofuran	45.2		1.6	5.0	"	50.0		90.4	65-108		

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

LCS (EG72003-BS1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2,4-Dinitrophenol	17.0	J	1.8	25	ug/L	50.0		33.9	28-183		
2,4-Dinitrotoluene	51.4		2.0	5.0	"	50.0		103	54-143		
Fluorene	44.4		1.1	5.0	"	50.0		88.9	66-104		
4-Nitrophenol	32.9		1.6	25	"	50.0		65.8	44-159		
4-Chlorophenyl phenyl ether	44.4		1.4	5.0	"	50.0		88.8	64-112		
Diethyl phthalate	24.6		1.7	5.0	"	50.0		49.3	1-132		
4,6-Dinitro-2-methylphenol	32.8	J	1.5	25	"	50.0		65.7	65-143		
N-Nitrosodiphenylamine	45.2		1.4	5.0	"	50.0		90.3	64-115		
4-Nitroaniline	47.9		1.7	25	"	50.0		95.8	57-137		
4-Bromophenyl phenyl ether	43.6		0.9	5.0	"	50.0		87.3	69-114		
Hexachlorobenzene	45.4		1.4	5.0	"	50.0		90.7	63-114		
Pentachlorophenol	40.2		1.6	25	"	50.0		80.4	64-124		
Phenanthrene	46.5		0.6	5.0	"	50.0		93.0	64-110		
Anthracene	47.0		0.8	5.0	"	50.0		93.9	65-108		
Carbazole	48.6		1.6	5.0	"	50.0		97.1	63-117		
Di-n-butyl phthalate	44.4		1.9	5.0	"	50.0		88.7	1-152		
Fluoranthene	49.7		3.6	5.0	"	50.0		99.4	68-109		
Pyrene	44.1		3.0	5.0	"	50.0		88.2	65-117		
Butyl benzyl phthalate	44.4		2.2	5.0	"	50.0		88.9	1-184		
3,3'-Dichlorobenzidine	49.9		1.1	25	"	50.0		99.7	23-190		
Chrysene	45.2		0.6	5.0	"	50.0		90.5	62-119		
Benzo (a) anthracene	44.5		0.9	5.0	"	50.0		89.1	68-115		
Bis(2-ethylhexyl)phthalate	52.1		2.3	5.0	"	50.0		104	30-174		
Di-n-octyl phthalate	53.4		2.7	5.0	"	50.0		107	44-122		
Benzo (b) fluoranthene	49.2		1.1	5.0	"	50.0		98.4	58-115		
Benzo (k) fluoranthene	50.6		1.1	5.0	"	50.0		101	55-112		
Benzo (a) pyrene	48.7		0.7	5.0	"	50.0		97.5	48-123		
Indeno (1,2,3-cd) pyrene	47.3		0.3	5.0	"	50.0		94.5	51-129		
Dibenz (a,h) anthracene	47.6		0.6	5.0	"	50.0		95.3	45-135		

James D. Burden, ESAT Team Leader

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

LCS (EG72003-BS1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (g,h,i) perylene	**47.3**		0.9	5.0	ug/L	50.0		94.5	52-120		

LCS Dup (EG72003-BSD1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*33.2*				*ug/L*	*50.0*		*66.3*	*23-102*		
Surrogate: Phenol-d5	*37.9*				"	*50.0*		*75.7*	*26-111*		
Surrogate: Nitrobenzene-d5	*40.3*				"	*50.0*		*80.6*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*40.1*				"	*50.0*		*80.1*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*45.0*				"	*50.0*		*89.9*	*40-113*		
Surrogate: Terphenyl-dl4	*30.4*				"	*50.0*		*60.8*	*1-163*		
Phenol	**42.4**		0.7	5.0	"	50.0		84.8	32-118	10.4	49.8
Bis(2-chloroethyl)ether	**41.6**		0.7	5.0	"	50.0		83.1	40-107	4.81	49.7
2-Chlorophenol	**42.4**		0.8	5.0	"	50.0		84.7	26-120	12.4	58.9
1,3-Dichlorobenzene	**38.7**		2.1	5.0	"	50.0		77.4	19-100	5.60	62.9
1,4-Dichlorobenzene	**39.8**		2.2	5.0	"	50.0		79.6	24-100	4.08	48.3
Benzyl alcohol	**46.8**		1.0	5.0	"	50.0		93.5	44-143	13.5	23.8
1,2-Dichlorobenzene	**40.4**		1.9	5.0	"	50.0		80.8	26-101	6.55	43.9
2-Methylphenol	**34.5**		0.6	5.0	"	50.0		69.0	47-107	11.7	41.6
Bis(2-chloroisopropyl)ether	**40.5**		1.8	5.0	"	50.0		81.0	40-109	6.74	43.9
3 & 4-Methylphenol	**94.1**		2.0	10	"	100		94.1	45-137	12.9	81.2
N-Nitrosodi-n-propylamine	**42.6**		1.7	5.0	"	50.0		85.1	53-110	11.1	32.9
Hexachloroethane	**33.4**		2.7	5.0	"	50.0		66.8	16-94	6.78	60.5
Nitrobenzene	**44.1**		1.4	5.0	"	50.0		88.2	43-110	5.16	22.5
Isophorone	**42.8**		1.4	5.0	"	50.0		85.6	52-106	5.62	14.4
2-Nitrophenol	**48.1**		1.5	5.0	"	50.0		96.2	44-120	18.6	34.1
2,4-Dimethylphenol	**42.9**		1.4	5.0	"	50.0		85.8	35-103	3.46	17
Bis(2-chloroethoxy)methane	**44.0**		1.0	5.0	"	50.0		87.9	55-105	5.47	15.9
2,4-Dichlorophenol	**47.2**		1.2	5.0	"	50.0		94.4	40-124	15.0	31.1

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Superfund, US EPA Region 5	*Project:Muskego Sanitary Landfill*	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

LCS Dup (EG72003-BSD1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	41.4		1.8	5.0	ug/L	50.0		82.8	37-101	5.15	23.9
Naphthalene	44.3		1.1	5.0	"	50.0		88.6	44-100	3.84	17.2
4-Chloroaniline	48.2		1.6	5.0	"	50.0		96.4	60-110	11.0	9.89
Hexachlorobutadiene	31.0		2.5	5.0	"	50.0		62.1	27-95	4.24	37.7
2-Methylnaphthalene	43.9		1.1	5.0	"	50.0		87.9	53-103	8.32	15.8
4-Chloro-3-methylphenol	47.0		1.1	5.0	"	50.0		93.9	47-133	8.78	20
Hexachlorocyclopentadiene	19.1	J	2.8	25	"	50.0		38.2	1-92.4	7.50	103
2,4,6-Trichlorophenol	48.2		1.1	5.0	"	50.0		96.3	54-118	8.44	25.9
2,4,5-Trichlorophenol	42.7		1.6	5.0	"	50.0		85.3	60-118	8.99	22.9
2-Chloronaphthalene	43.8		1.4	5.0	"	50.0		87.7	53-108	1.36	10.8
2-Nitroaniline	54.4	J	2.3	5.0	"	50.0		109	72-122	5.41	9.18
Acenaphthylene	45.9		0.7	5.0	"	50.0		91.8	59-103	1.60	10.3
Dimethyl phthalate	24.3		1.2	5.0	"	50.0		48.7	1-127	2.33	49.1
2,6-Dinitrotoluene	53.2		1.6	5.0	"	50.0		106	60-129	3.35	25.2
Acenaphthene	44.2		0.6	5.0	"	50.0		88.4	60-103	1.90	10.1
3-Nitroaniline	51.6		2.0	25	"	50.0		103	64-142	2.17	12.7
Dibenzofuran	46.7		1.6	5.0	"	50.0		93.3	65-108	3.22	8.66
2,4-Dinitrophenol	11.2	J	1.8	25	"	50.0		22.4	28-183	41.0	114
2,4-Dinitrotoluene	53.2		2.0	5.0	"	50.0		106	54-143	3.35	26.3
Fluorene	45.4		1.1	5.0	"	50.0		90.8	66-104	2.09	7.06
4-Nitrophenol	37.7		1.6	25	"	50.0		75.3	44-159	13.5	53.7
4-Chlorophenyl phenyl ether	45.4		1.4	5.0	"	50.0		90.9	64-112	2.36	9.19
Diethyl phthalate	24.7		1.7	5.0	"	50.0		49.4	1-132	0.284	47.3
4,6-Dinitro-2-methylphenol	39.8	J	1.5	25	"	50.0		79.6	65-143	19.2	38.6
N-Nitrosodiphenylamine	48.5		1.4	5.0	"	50.0		97.0	64-115	7.09	10.5
4-Nitroaniline	46.6		1.7	25	"	50.0		93.1	57-137	2.86	36.9
4-Bromophenyl phenyl ether	48.6		0.9	5.0	"	50.0		97.2	69-114	10.8	6.42
Hexachlorobenzene	49.2		1.4	5.0	"	50.0		98.3	63-114	8.02	8.65
Pentachlorophenol	41.0		1.6	25	"	50.0		81.9	64-124	1.85	32.9

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77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

LCS Dup (EG72003-BSD1) **Prepared: Jul-23-07 Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Phenanthrene	**47.8**		0.6	5.0	ug/L	50.0		95.5	64-110	2.63	7.42
Anthracene	**48.2**		0.8	5.0	"	50.0		96.4	65-108	2.58	6.98
Carbazole	**49.1**		1.6	5.0	"	50.0		98.2	63-117	1.04	30.6
Di-n-butyl phthalate	**45.9**		1.9	5.0	"	50.0		91.8	1-152	3.35	42.1
Fluoranthene	**48.0**		3.6	5.0	"	50.0		96.0	68-109	3.48	6.34
Pyrene	**45.2**		3.0	5.0	"	50.0		90.4	65-117	2.53	23.3
Butyl benzyl phthalate	**46.2**		2.2	5.0	"	50.0		92.3	1-184	3.80	117
3,3'-Dichlorobenzidine	**51.0**		1.1	25	"	50.0		102	23-190	2.32	9.41
Chrysene	**46.2**		0.6	5.0	"	50.0		92.4	62-119	2.14	15.1
Benzo (a) anthracene	**45.3**		0.9	5.0	"	50.0		90.6	68-115	1.74	14.8
Bis(2-ethylhexyl)phthalate	**54.3**		2.3	5.0	"	50.0		109	30-174	4.25	68.9
Di-n-octyl phthalate	**56.1**		2.7	5.0	"	50.0		112	44-122	4.80	25
Benzo (b) fluoranthene	**51.5**		1.1	5.0	"	50.0		103	58-115	4.55	20.5
Benzo (k) fluoranthene	**51.6**		1.1	5.0	"	50.0		103	55-112	2.04	21
Benzo (a) pyrene	**50.6**		0.7	5.0	"	50.0		101	48-123	3.84	18.9
Indeno (1,2,3-cd) pyrene	**46.1**		0.3	5.0	"	50.0		92.1	51-129	2.55	36.9
Dibenz (a,h) anthracene	**47.9**		0.6	5.0	"	50.0		95.9	45-135	0.628	30.9
Benzo (g,h,i) perylene	**46.1**		0.9	5.0	"	50.0		92.1	52-120	2.55	34

Matrix Spike (EG72003-MS1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*29.9*				*ug/L*	*51.5*		*58.1*	*23-102*		
Surrogate: Phenol-d5	*34.9*				"	*51.5*		*67.7*	*26-111*		
Surrogate: Nitrobenzene-d5	*35.2*				"	*51.5*		*68.4*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*37.6*				"	*51.5*		*72.9*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*44.2*				"	*51.5*		*85.8*	*40-113*		
Surrogate: Terphenyl-dl4	*39.7*				"	*51.5*		*77.1*	*1-163*		
Phenol	**39.1**		0.8	5.2	"	51.5	Rejected	75.9	26-118		

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike (EG72003-MS1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	37.2		0.7	5.2	ug/L	51.5	U	72.2	42-99		
2-Chlorophenol	37.1		0.8	5.2	"	51.5	Rejected	71.9	27-105		
1,3-Dichlorobenzene	31.4		2.2	5.2	"	51.5	U	60.9	33-86		
1,4-Dichlorobenzene	33.5		2.3	5.2	"	51.5	U	65.0	33-89		
Benzyl alcohol	42.8		1.0	5.2	"	51.5	Rejected	83.1	28-120		
1,2-Dichlorobenzene	34.7		2.0	5.2	"	51.5	U	67.3	35-88		
2-Methylphenol	39.9		0.7	5.2	"	51.5	Rejected	77.4	55-88		
Bis(2-chloroisopropyl)ether	37.5		1.9	5.2	"	51.5	U	72.8	35-109		
3 & 4-Methylphenol	88.4		2.1	10	"	103	Rejected	85.7	38-132		
N-Nitrosodi-n-propylamine	40.5		1.8	5.2	"	51.5	U	78.5	42-115		
Hexachloroethane	27.1		2.8	5.2	"	51.5	U	52.7	17-102		
Nitrobenzene	39.6		1.4	5.2	"	51.5	U	76.9	42-100		
Isophorone	40.5		1.4	5.2	"	51.5	U	78.5	43-104		
2-Nitrophenol	42.7		1.5	5.2	"	51.5	Rejected	82.8	39-114		
2,4-Dimethylphenol	39.9		1.4	5.2	"	51.5	Rejected	77.5	24-105		
Bis(2-chloroethoxy)methane	39.8		1.0	5.2	"	51.5	U	77.3	50-101		
2,4-Dichlorophenol	43.1		1.2	5.2	"	51.5	Rejected	83.6	21-131		
1,2,4-Trichlorobenzene	34.7		1.9	5.2	"	51.5	U	67.3	35-99		
Naphthalene	41.8		1.1	5.2	"	51.5	U	81.0	43-96		
4-Chloroaniline	46.4		1.6	5.2	"	51.5	U	90.1	59-94		
Hexachlorobutadiene	27.3		2.6	5.2	"	51.5	U	52.9	25-102		
2-Methylnaphthalene	41.7		1.1	5.2	"	51.5	U	80.9	47-101		
4-Chloro-3-methylphenol	47.6		1.1	5.2	"	51.5	Rejected	92.4	36-141		
Hexachlorocyclopentadiene	16.9	J	2.9	26	"	51.5	U	32.7	1-92.8		
2,4,6-Trichlorophenol	46.0		1.1	5.2	"	51.5	Rejected	89.3	4-147		
2,4,5-Trichlorophenol	43.7		1.6	5.2	"	51.5	Rejected	84.8	16-151		
2-Chloronaphthalene	42.8		1.4	5.2	"	51.5	U	83.1	48-102		
2-Nitroaniline	55.1	J	2.4	5.2	"	51.5	U	107	66-118		
Acenaphthylene	46.1		0.7	5.2	"	51.5	U	89.4	52-103		

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike (EG72003-MS1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dimethyl phthalate	**20.6**		1.2	5.2	ug/L	51.5	U	40.0	1-145		
2,6-Dinitrotoluene	**54.2**		1.6	5.2	"	51.5	U	105	58-118		
Acenaphthene	**45.6**		0.6	5.2	"	51.5	U	88.4	52-102		
3-Nitroaniline	**55.5**		2.1	26	"	51.5	U	108	44-136		
Dibenzofuran	**48.2**		1.6	5.2	"	51.5	U	93.6	57-107		
2,4-Dinitrophenol	**59.0**	J	1.9	26	"	51.5	Rejected	115	16-181		
2,4-Dinitrotoluene	**54.2**		2.1	5.2	"	51.5	U	105	59-118		
Fluorene	**50.2**		1.1	5.2	"	51.5	U	97.3	56-107		
4-Nitrophenol	**48.8**		1.6	26	"	51.5	Rejected	94.7	50-141		
4-Chlorophenyl phenyl ether	**50.1**		1.4	5.2	"	51.5	U	97.3	56-110		
Diethyl phthalate	**29.6**		1.8	5.2	"	51.5	U	57.4	10-139		
4,6-Dinitro-2-methylphenol	**52.1**	J	1.5	26	"	51.5	Rejected	101	68-133		
N-Nitrosodiphenylamine	**44.9**		1.4	5.2	"	51.5	U	87.1	63-113		
4-Nitroaniline	**57.1**		1.8	26	"	51.5	U	111	49-124		
4-Bromophenyl phenyl ether	**44.4**		0.9	5.2	"	51.5	U	86.0	64-113		
Hexachlorobenzene	**48.4**		1.4	5.2	"	51.5	U	93.8	44-118		
Pentachlorophenol	**47.9**		1.6	26	"	51.5	Rejected	93.0	10-162		
Phenanthrene	**49.6**		0.6	5.2	"	51.5	U	96.3	58-112		
Anthracene	**50.5**		0.8	5.2	"	51.5	U	97.9	57-112		
Carbazole	**53.0**		1.6	5.2	"	51.5	U	103	40-120		
Di-n-butyl phthalate	**50.7**		2.0	5.2	"	51.5	U	98.3	27-150		
Fluoranthene	**53.2**		3.7	5.2	"	51.5	U	103	58-114		
Pyrene	**53.8**		3.1	5.2	"	51.5	U	104	57-109		
Butyl benzyl phthalate	**54.7**		2.3	5.2	"	51.5	U	106	3-153		
3,3'-Dichlorobenzidine	**50.3**		1.1	26	"	51.5	U	97.6	1-224		
Chrysene	**48.5**		0.7	5.2	"	51.5	U	94.0	22-142		
Benzo (a) anthracene	**48.0**		0.9	5.2	"	51.5	U	93.1	26-140		
Bis(2-ethylhexyl)phthalate	**59.3**		2.4	5.2	"	51.5	U	115	1-164		
Di-n-octyl phthalate	**60.8**		2.8	5.2	"	51.5	U	118	9-149		

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike (EG72003-MS1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Benzo (b) fluoranthene	**52.0**		1.1	5.2	ug/L	51.5	U	101	16-148		
Benzo (k) fluoranthene	**55.0**		1.1	5.2	"	51.5	U	107	18-141		
Benzo (a) pyrene	**51.7**		0.8	5.2	"	51.5	U	100	11-150		
Indeno (1,2,3-cd) pyrene	**45.9**		0.3	5.2	"	51.5	U	89.1	1-164		
Dibenz (a,h) anthracene	**48.9**		0.6	5.2	"	51.5	U	94.9	1-164		
Benzo (g,h,i) perylene	**45.9**		1.0	5.2	"	51.5	U	89.1	4-153		

Matrix Spike (EG72003-MS2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*31.1*				*ug/L*	*53.2*		*58.4*	*23-102*		
Surrogate: Phenol-d5	*36.5*				"	*53.2*		*68.6*	*26-111*		
Surrogate: Nitrobenzene-d5	*39.4*				"	*53.2*		*74.0*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*41.7*				"	*53.2*		*78.5*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*43.7*				"	*53.2*		*82.2*	*40-113*		
Surrogate: Terphenyl-dl4	*41.4*				"	*53.2*		*77.9*	*1-163*		
Phenol	**41.9**		0.8	5.3	"	53.2	U	78.7	26-118		
Bis(2-chloroethyl)ether	**42.0**		0.7	5.3	"	53.2	U	79.0	42-99		
2-Chlorophenol	**38.6**		0.8	5.3	"	53.2	U	72.6	27-105		
1,3-Dichlorobenzene	**39.6**		2.2	5.3	"	53.2	U	74.5	33-86		
1,4-Dichlorobenzene	**41.8**		2.3	5.3	"	53.2	U	78.6	33-89		
Benzyl alcohol	**48.8**		1.1	5.3	"	53.2	U	91.7	28-120		
1,2-Dichlorobenzene	**41.9**		2.0	5.3	"	53.2	U	78.9	35-88		
2-Methylphenol	**43.5**		0.7	5.3	"	53.2	U	81.7	55-88		
Bis(2-chloroisopropyl)ether	**41.9**		1.9	5.3	"	53.2	U	78.7	35-109		
3 & 4-Methylphenol	**97.8**		2.1	11	"	106	U	91.9	38-132		
N-Nitrosodi-n-propylamine	**44.1**		1.8	5.3	"	53.2	U	83.0	42-115		
Hexachloroethane	**38.4**		2.9	5.3	"	53.2	U	72.2	17-102		
Nitrobenzene	**43.5**		1.5	5.3	"	53.2	U	81.8	42-100		

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike (EG72003-MS2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Isophorone	44.2		1.5	5.3	ug/L	53.2	U	83.1	43-104		
2-Nitrophenol	46.1		1.6	5.3	"	53.2	U	86.6	39-114		
2,4-Dimethylphenol	37.3		1.5	5.3	"	53.2	U	70.1	24-105		
Bis(2-chloroethoxy)methane	43.9		1.1	5.3	"	53.2	U	82.6	50-101		
2,4-Dichlorophenol	43.2		1.3	5.3	"	53.2	U	81.2	21-131		
1,2,4-Trichlorobenzene	42.9		1.9	5.3	"	53.2	U	80.6	35-99		
Naphthalene	46.2		1.2	5.3	"	53.2	U	86.9	43-96		
4-Chloroaniline	51.1		1.7	5.3	"	53.2	U	96.0	59-94		
Hexachlorobutadiene	38.6		2.7	5.3	"	53.2	U	72.6	25-102		
2-Methylnaphthalene	46.0		1.2	5.3	"	53.2	U	86.5	47-101		
4-Chloro-3-methylphenol	50.5		1.2	5.3	"	53.2	U	95.0	36-141		
Hexachlorocyclopentadiene	9.8	J	3.0	27	"	53.2	U	18.4	1-92.8		
2,4,6-Trichlorophenol	45.5		1.2	5.3	"	53.2	U	85.6	4-147		
2,4,5-Trichlorophenol	45.4		1.7	5.3	"	53.2	U	85.4	16-151		
2-Chloronaphthalene	47.0		1.5	5.3	"	53.2	U	88.4	48-102		
2-Nitroaniline	56.6	J	2.4	5.3	"	53.2	U	106	66-118		
Acenaphthylene	48.7		0.7	5.3	"	53.2	U	91.6	52-103		
Dimethyl phthalate	33.4		1.3	5.3	"	53.2	U	62.7	1-145		
2,6-Dinitrotoluene	57.6		1.7	5.3	"	53.2	U	108	58-118		
Acenaphthene	48.0		0.6	5.3	"	53.2	U	90.3	52-102		
3-Nitroaniline	54.8		2.1	27	"	53.2	U	103	44-136		
Dibenzofuran	50.0		1.7	5.3	"	53.2	U	94.1	57-107		
2,4-Dinitrophenol	22.4	J	1.9	27	"	53.2	U	42.1	16-181		
2,4-Dinitrotoluene	57.6		2.1	5.3	"	53.2	U	108	59-118		
Fluorene	49.6		1.2	5.3	"	53.2	U	93.3	56-107		
4-Nitrophenol	47.3		1.7	27	"	53.2	U	88.9	50-141		
4-Chlorophenyl phenyl ether	49.3		1.5	5.3	"	53.2	U	92.7	56-110		
Diethyl phthalate	36.7		1.8	5.3	"	53.2	U	68.9	10-139		
4,6-Dinitro-2-methylphenol	46.3	J	1.6	27	"	53.2	U	87.0	68-133		

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike (EG72003-MS2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	**47.7**		1.5	5.3	ug/L	53.2	U	89.8	63-113		
4-Nitroaniline	**54.3**		1.8	27	"	53.2	U	102	49-124		
4-Bromophenyl phenyl ether	**49.1**		0.9	5.3	"	53.2	U	92.2	64-113		
Hexachlorobenzene	**50.3**		1.5	5.3	"	53.2	U	94.5	44-118		
Pentachlorophenol	**48.2**		1.7	27	"	53.2	U	90.6	10-162		
Phenanthrene	**50.8**		0.6	5.3	"	53.2	U	95.5	58-112		
Anthracene	**50.8**		0.9	5.3	"	53.2	U	95.5	57-112		
Carbazole	**53.8**		1.7	5.3	"	53.2	U	101	40-120		
Di-n-butyl phthalate	**51.9**		2.0	5.3	"	53.2	U	97.6	27-150		
Fluoranthene	**54.6**		3.8	5.3	"	53.2	U	103	58-114		
Pyrene	**52.8**		3.2	5.3	"	53.2	U	99.3	57-109		
Butyl benzyl phthalate	**53.4**		2.3	5.3	"	53.2	U	100	3-153		
3,3'-Dichlorobenzidine	**49.1**		1.2	27	"	53.2	U	92.4	1-224		
Chrysene	**48.3**		0.7	5.3	"	53.2	U	90.9	22-142		
Benzo (a) anthracene	**48.7**		1.0	5.3	"	53.2	U	91.5	26-140		
Bis(2-ethylhexyl)phthalate	**59.0**		2.4	5.3	"	53.2	U	111	1-164		
Di-n-octyl phthalate	**64.0**		2.9	5.3	"	53.2	U	120	9-149		
Benzo (b) fluoranthene	**55.3**		1.2	5.3	"	53.2	U	104	16-148		
Benzo (k) fluoranthene	**53.9**		1.2	5.3	"	53.2	U	101	18-141		
Benzo (a) pyrene	**53.0**		0.8	5.3	"	53.2	U	99.7	11-150		
Indeno (1,2,3-cd) pyrene	**43.0**		0.3	5.3	"	53.2	U	80.9	1-164		
Dibenz (a,h) anthracene	**46.3**		0.7	5.3	"	53.2	U	87.1	1-164		
Benzo (g,h,i) perylene	**43.0**		1.0	5.3	"	53.2	U	80.9	4-153		

Matrix Spike Dup (EG72003-MSD1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*34.7*				*ug/L*	*51.0*		*68.0*	*23-102*		
Surrogate: Phenol-d5	*37.6*				"	*51.0*		*73.7*	*26-111*		

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike Dup (EG72003-MSD1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Nitrobenzene-d5	*38.9*				*ug/L*	*51.0*		*76.3*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*39.7*				"	*51.0*		*77.8*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*45.2*				"	*51.0*		*88.5*	*40-113*		
Surrogate: Terphenyl-dl4	*36.5*				"	*51.0*		*71.5*	*1-163*		
Phenol	42.2		0.8	5.1	"	51.0	Rejected	82.8	26-118	8.67	67.2
Bis(2-chloroethyl)ether	41.2		0.7	5.1	"	51.0	U	80.8	42-99	11.3	52.5
2-Chlorophenol	42.9		0.8	5.1	"	51.0	Rejected	84.0	27-105	15.6	77
1,3-Dichlorobenzene	37.3		2.1	5.1	"	51.0	U	73.0	33-86	18.1	82
1,4-Dichlorobenzene	38.6		2.2	5.1	"	51.0	U	75.7	33-89	15.2	53.6
Benzyl alcohol	45.6		1.0	5.1	"	51.0	Rejected	89.5	28-120	7.42	40.2
1,2-Dichlorobenzene	39.9		1.9	5.1	"	51.0	U	78.1	35-88	14.9	50.9
2-Methylphenol	43.2		0.7	5.1	"	51.0	Rejected	84.7	55-88	9.11	28
Bis(2-chloroisopropyl)ether	40.5		1.8	5.1	"	51.0	U	79.4	35-109	8.73	86.4
3 & 4-Methylphenol	93.6		2.0	10	"	102	Rejected	91.7	38-132	6.75	81
N-Nitrosodi-n-propylamine	41.4		1.7	5.1	"	51.0	U	81.2	42-115	3.38	43.6
Hexachloroethane	32.6		2.8	5.1	"	51.0	U	63.8	17-102	19.2	79.7
Nitrobenzene	42.2		1.4	5.1	"	51.0	U	82.8	42-100	7.34	33.4
Isophorone	42.4		1.4	5.1	"	51.0	U	83.1	43-104	5.62	25.2
2-Nitrophenol	48.9		1.5	5.1	"	51.0	Rejected	95.9	39-114	14.7	47.7
2,4-Dimethylphenol	42.7		1.4	5.1	"	51.0	Rejected	83.6	24-105	7.60	29.2
Bis(2-chloroethoxy)methane	42.8		1.0	5.1	"	51.0	U	83.9	50-101	8.21	35.6
2,4-Dichlorophenol	47.3		1.2	5.1	"	51.0	Rejected	92.7	21-131	10.3	87.6
1,2,4-Trichlorobenzene	38.8		1.8	5.1	"	51.0	U	76.1	35-99	12.3	36.4
Naphthalene	44.1		1.1	5.1	"	51.0	U	86.5	43-96	6.54	35.3
4-Chloroaniline	46.5		1.6	5.1	"	51.0	U	91.1	59-94	1.08	25.1
Hexachlorobutadiene	31.1		2.6	5.1	"	51.0	U	60.9	25-102	14.1	44.7
2-Methylnaphthalene	42.4		1.1	5.1	"	51.0	U	83.2	47-101	2.80	30.3
4-Chloro-3-methylphenol	48.9		1.1	5.1	"	51.0	Rejected	95.8	36-141	3.55	13.5
Hexachlorocyclopentadiene	19.9	J	2.9	26	"	51.0	U	39.0	1-92.8	17.4	63.3

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77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike Dup (EG72003-MSD1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	49.6		1.1	5.1	ug/L	51.0	Rejected	97.2	4-147	8.51	189
2,4,5-Trichlorophenol	47.5		1.6	5.1	"	51.0	Rejected	93.1	16-151	9.33	142
2-Chloronaphthalene	44.7		1.4	5.1	"	51.0	U	87.6	48-102	5.25	26
2-Nitroaniline	55.0	J	2.3	5.1	"	51.0	U	108	66-118	0.858	11
Acenaphthylene	47.0		0.7	5.1	"	51.0	U	92.2	52-103	3.11	19.7
Dimethyl phthalate	23.3		1.2	5.1	"	51.0	U	45.7	1-145	13.3	67.9
2,6-Dinitrotoluene	55.4		1.6	5.1	"	51.0	U	109	58-118	3.20	9.26
Acenaphthene	45.9		0.6	5.1	"	51.0	U	89.9	52-102	1.70	18.9
3-Nitroaniline	54.4		2.0	26	"	51.0	U	107	44-136	0.896	69.6
Dibenzofuran	49.0		1.6	5.1	"	51.0	U	96.0	57-107	2.51	17.4
2,4-Dinitrophenol	34.8	J	1.8	26	"	51.0	Rejected	68.2	16-181	50.8	121
2,4-Dinitrotoluene	55.4		2.0	5.1	"	51.0	U	109	59-118	3.20	12.2
Fluorene	48.8		1.1	5.1	"	51.0	U	95.7	56-107	1.68	13.1
4-Nitrophenol	51.6		1.6	26	"	51.0	Rejected	101	50-141	6.50	11.6
4-Chlorophenyl phenyl ether	47.2		1.4	5.1	"	51.0	U	92.5	56-110	5.06	15.3
Diethyl phthalate	28.0		1.7	5.1	"	51.0	U	54.9	10-139	4.45	31
4,6-Dinitro-2-methylphenol	50.4	J	1.5	26	"	51.0	Rejected	98.8	68-133	2.40	37.6
N-Nitrosodiphenylamine	44.6		1.4	5.1	"	51.0	U	87.4	63-113	0.436	9.94
4-Nitroaniline	53.3		1.7	26	"	51.0	U	105	49-124	5.81	19.8
4-Bromophenyl phenyl ether	45.1		0.9	5.1	"	51.0	U	88.4	64-113	2.68	10.9
Hexachlorobenzene	47.6		1.4	5.1	"	51.0	U	93.3	44-118	0.620	17.7
Pentachlorophenol	48.3		1.6	26	"	51.0	Rejected	94.8	10-162	1.90	164
Phenanthrene	48.9		0.6	5.1	"	51.0	U	95.8	58-112	0.583	10.6
Anthracene	48.8		0.8	5.1	"	51.0	U	95.7	57-112	2.29	7.56
Carbazole	51.9		1.6	5.1	"	51.0	U	102	40-120	1.10	17
Di-n-butyl phthalate	50.0		1.9	5.1	"	51.0	U	98.0	27-150	0.306	11.9
Fluoranthene	54.4		3.7	5.1	"	51.0	U	107	58-114	3.20	11.5
Pyrene	48.9		3.1	5.1	"	51.0	U	95.8	57-109	8.53	12.1
Butyl benzyl phthalate	50.6		2.2	5.1	"	51.0	U	99.2	3-153	6.84	26.9

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike Dup (EG72003-MSD1) **Source: E707002-03** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	**49.5**		1.1	26	ug/L	51.0	U	97.0	1-224	0.596	35.3
Chrysene	**47.6**		0.7	5.1	"	51.0	U	93.3	22-142	0.790	36.2
Benzo (a) anthracene	**46.6**		0.9	5.1	"	51.0	U	91.3	26-140	1.97	37
Bis(2-ethylhexyl)phthalate	**55.2**		2.3	5.1	"	51.0	U	108	1-164	6.12	149
Di-n-octyl phthalate	**58.4**		2.8	5.1	"	51.0	U	114	9-149	3.00	57.4
Benzo (b) fluoranthene	**50.4**		1.1	5.1	"	51.0	U	98.7	16-148	2.08	60.9
Benzo (k) fluoranthene	**54.1**		1.1	5.1	"	51.0	U	106	18-141	0.527	47.3
Benzo (a) pyrene	**50.0**		0.7	5.1	"	51.0	U	98.0	11-150	2.36	51.8
Indeno (1,2,3-cd) pyrene	**41.3**		0.3	5.1	"	51.0	U	81.0	1-164	9.52	78.1
Dibenz (a,h) anthracene	**45.9**		0.6	5.1	"	51.0	U	89.9	1-164	5.39	69.3
Benzo (g,h,i) perylene	**41.3**		0.9	5.1	"	51.0	U	81.0	4-153	9.52	71

Matrix Spike Dup (EG72003-MSD2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 2-Fluorophenol	*32.9*				*ug/L*	*53.8*		*61.3*	*23-102*		
Surrogate: Phenol-d5	*35.4*				"	*53.8*		*65.9*	*26-111*		
Surrogate: Nitrobenzene-d5	*38.3*				"	*53.8*		*71.3*	*18-111*		
Surrogate: 2-Fluorobiphenyl	*38.6*				"	*53.8*		*71.8*	*7-130*		
Surrogate: 2,4,6-Tribromophenol	*42.1*				"	*53.8*		*78.3*	*40-113*		
Surrogate: Terphenyl-dl4	*41.8*				"	*53.8*		*77.7*	*1-163*		
Phenol	**42.1**		0.8	5.4	"	53.8	U	78.4	26-118	0.458	67.2
Bis(2-chloroethyl)ether	**41.7**		0.7	5.4	"	53.8	U	77.6	42-99	1.71	52.5
2-Chlorophenol	**41.8**		0.8	5.4	"	53.8	U	77.7	27-105	6.81	77
1,3-Dichlorobenzene	**40.5**		2.3	5.4	"	53.8	U	75.2	33-86	0.962	82
1,4-Dichlorobenzene	**41.6**		2.4	5.4	"	53.8	U	77.4	33-89	1.51	53.6
Benzyl alcohol	**44.9**		1.1	5.4	"	53.8	U	83.5	28-120	9.36	40.2
1,2-Dichlorobenzene	**41.7**		2.0	5.4	"	53.8	U	77.5	35-88	1.77	50.9
2-Methylphenol	**41.7**		0.7	5.4	"	53.8	U	77.6	55-88	5.15	28

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike Dup (EG72003-MSD2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bis(2-chloroisopropyl)ether	41.8		1.9	5.4	ug/L	53.8	U	77.7	35-109	1.25	86.4
3 & 4-Methylphenol	89.8		2.2	11	"	108	U	83.5	38-132	9.57	81
N-Nitrosodi-n-propylamine	40.7		1.8	5.4	"	53.8	U	75.8	42-115	9.07	43.6
Hexachloroethane	37.9		2.9	5.4	"	53.8	U	70.5	17-102	2.35	79.7
Nitrobenzene	42.6		1.5	5.4	"	53.8	U	79.3	42-100	3.20	33.4
Isophorone	42.3		1.5	5.4	"	53.8	U	78.6	43-104	5.57	25.2
2-Nitrophenol	47.7		1.6	5.4	"	53.8	U	88.7	39-114	2.37	47.7
2,4-Dimethylphenol	39.1		1.5	5.4	"	53.8	U	72.7	24-105	3.73	29.2
Bis(2-chloroethoxy)methane	42.0		1.1	5.4	"	53.8	U	78.1	50-101	5.68	35.6
2,4-Dichlorophenol	45.3		1.3	5.4	"	53.8	U	84.2	21-131	3.70	87.6
1,2,4-Trichlorobenzene	41.0		1.9	5.4	"	53.8	U	76.3	35-99	5.48	36.4
Naphthalene	45.2		1.2	5.4	"	53.8	U	84.1	43-96	3.32	35.3
4-Chloroaniline	47.8		1.7	5.4	"	53.8	U	89.0	59-94	7.61	25.1
Hexachlorobutadiene	38.4		2.7	5.4	"	53.8	U	71.4	25-102	1.64	44.7
2-Methylnaphthalene	44.8		1.2	5.4	"	53.8	U	83.2	47-101	3.82	30.3
4-Chloro-3-methylphenol	49.7		1.2	5.4	"	53.8	U	92.5	36-141	2.73	13.5
Hexachlorocyclopentadiene	12.9	J	3.0	27	"	53.8	U	24.0	1-92.8	26.4	63.3
2,4,6-Trichlorophenol	46.2		1.2	5.4	"	53.8	U	85.9	4-147	0.327	189
2,4,5-Trichlorophenol	45.7		1.7	5.4	"	53.8	U	85.0	16-151	0.493	142
2-Chloronaphthalene	43.3		1.5	5.4	"	53.8	U	80.5	48-102	9.31	26
2-Nitroaniline	56.4	J	2.5	5.4	"	53.8	U	105	66-118	1.38	11
Acenaphthylene	48.0		0.7	5.4	"	53.8	U	89.2	52-103	2.59	19.7
Dimethyl phthalate	39.5		1.3	5.4	"	53.8	U	73.5	1-145	15.8	67.9
2,6-Dinitrotoluene	57.2		1.7	5.4	"	53.8	U	106	58-118	1.71	9.26
Acenaphthene	46.0		0.6	5.4	"	53.8	U	85.5	52-102	5.44	18.9
3-Nitroaniline	56.7		2.2	27	"	53.8	U	105	44-136	2.30	69.6
Dibenzofuran	51.2		1.7	5.4	"	53.8	U	95.2	57-107	1.20	17.4
2,4-Dinitrophenol	52.6	J	1.9	27	"	53.8	U	97.8	16-181	79.5	121
2,4-Dinitrotoluene	57.2		2.2	5.4	"	53.8	U	106	59-118	1.71	12.2

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Superfund, US EPA Region 5	Project:Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number:TO14	Reported:
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Semivolatiles by GC/MS - Quality Control

Batch EG72003 - BP SVOA

Matrix Spike Dup (EG72003-MSD2) **Source: E707002-08** **Prepared: Jul-23-07 Analyzed: Jul-27-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Fluorene	51.5		1.2	5.4	ug/L	53.8	U	95.8	56-107	2.69	13.1
4-Nitrophenol	52.4		1.7	27	"	53.8	U	97.4	50-141	9.10	11.6
4-Chlorophenyl phenyl ether	50.7		1.5	5.4	"	53.8	U	94.4	56-110	1.82	15.3
Diethyl phthalate	43.2		1.8	5.4	"	53.8	U	80.4	10-139	15.3	31
4,6-Dinitro-2-methylphenol	54.5	J	1.6	27	"	53.8	U	101	68-133	15.3	37.6
N-Nitrosodiphenylamine	44.5		1.5	5.4	"	53.8	U	82.8	63-113	8.09	9.94
4-Nitroaniline	59.5		1.8	27	"	53.8	U	111	49-124	8.14	19.8
4-Bromophenyl phenyl ether	46.8		0.9	5.4	"	53.8	U	87.0	64-113	5.87	10.9
Hexachlorobenzene	49.0		1.5	5.4	"	53.8	U	91.1	44-118	3.64	17.7
Pentachlorophenol	53.7		1.7	27	"	53.8	U	99.9	10-162	9.81	164
Phenanthrene	50.5		0.6	5.4	"	53.8	U	94.0	58-112	1.58	10.6
Anthracene	50.2		0.9	5.4	"	53.8	U	93.3	57-112	2.37	7.56
Carbazole	54.4		1.7	5.4	"	53.8	U	101	40-120	0.0198	17
Di-n-butyl phthalate	53.6		2.0	5.4	"	53.8	U	99.7	27-150	2.19	11.9
Fluoranthene	57.1		3.9	5.4	"	53.8	U	106	58-114	3.49	11.5
Pyrene	53.0		3.2	5.4	"	53.8	U	98.6	57-109	0.667	12.1
Butyl benzyl phthalate	54.5		2.4	5.4	"	53.8	U	101	3-153	1.05	26.9
3,3'-Dichlorobenzidine	49.7		1.2	27	"	53.8	U	92.4	1-224	0.0433	35.3
Chrysene	48.0		0.7	5.4	"	53.8	U	89.3	22-142	1.73	36.2
Benzo (a) anthracene	48.1		1.0	5.4	"	53.8	U	89.4	26-140	2.28	37
Bis(2-ethylhexyl)phthalate	54.9		2.5	5.4	"	53.8	U	102	1-164	8.17	149
Di-n-octyl phthalate	62.4		2.9	5.4	"	53.8	U	116	9-149	3.55	57.4
Benzo (b) fluoranthene	53.0		1.2	5.4	"	53.8	U	98.6	16-148	5.25	60.9
Benzo (k) fluoranthene	55.0		1.2	5.4	"	53.8	U	102	18-141	0.983	47.3
Benzo (a) pyrene	52.2		0.8	5.4	"	53.8	U	97.1	11-150	2.66	51.8
Indeno (1,2,3-cd) pyrene	37.8		0.3	5.4	"	53.8	U	70.2	1-164	14.1	78.1
Dibenz (a,h) anthracene	43.4		0.7	5.4	"	53.8	U	80.7	1-164	7.60	69.3
Benzo (g,h,i) perylene	37.8		1.0	5.4	"	53.8	U	70.2	4-153	14.1	71

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77 West Jackson Boulevard	Project Number:TO14	**Reported:**
Chicago IL, 60604	Project Manager:Warren Layne	Aug-03-07 15:17

Notes and Definitions

R	Rejected
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

CASE NARRATIVE

DATE: August 08, 2007

PROJECT NAME: Muskego Sanitary Landfill

DATA SET NUMBER: E707001 and E707002

ANALYST(s): John Walton, ESAT

I. CASE DESCRIPTION:

The laboratory received seventeen (17) water samples Lab ID E707001-01 through -07 and E707002-01 through -10 from Muskego Sanitary Landfill between July 18 and 19 2007 to be analyzed for the Full List of Volatile Low level compounds and when necessary SIM analysis of the samples for Vinyl Chloride at a Detection Limit of 0.2 µg/L. All samples were collected between July 17 and 19, 2007.

The samples were analyzed on July 24, 2007 for Low Level Volatile Organic Compounds and the required dilutions were analyzed on July 25, 2007. The SIM analyses were performed on July 26, 2007.

The temperature at sample receipt for sample E707002-07 (1.8 °C) was outside the required sample preservation temperature of 4 ± 2°C. There is no regional guidance for qualifying the data based on this criterion.

All samples were analyzed within the required holding time of 14 days. No other problems were observed.

II. INSTRUMENT QUALITY CONTROLS:

1. Initial Calibration Check (ICAL Check):

Bromomethane (59%) and sec-Butyl Benzene (133%) were outside the suggested QC range of 70 - 130%. The data is not qualified based on the results of the ICAL Check.

2. Continuing Calibration (CC):

The %D for Vinyl Chloride (-27.6%) was outside the accepted QC Limits of ±25% for the CC analyzed on July 25, 2007 @ 00:09. In samples EG72401-BLK1, EG72401-BS1, EG72401-BSD1, E707002-04, -07 and -09 this analyte will be qualified as follows: non-detects will be qualified as

estimated "UJ" and detects will be qualified as estimated "J".

The %D for Dichlorodifluoromethane (27.5%) and Tetrahydrofuran (27.3%) were outside the accepted QC Limits of ±25% for the CC analyzed on July 25, 2007 @ 12:15. In samples EG72501-BLK1, EG72501-BS1, EG72501-BSD1, E707002-08RE1, EG72501-MS1 and EG72501-MSD1 these analytes will be qualified as follows: non-detects will be qualified as estimated "UJ" and detects will be qualified as estimated "J". The rest of the samples analyzed under this CC were analyzed for the dilutions of Methylene Chloride, therefore, the data for this dilution analyses will not need to be qualified.

III. METHOD QUALITY CONTROL:

1. Method Blank Results:

The following tables list the analytes detected in the Method Blanks analyzed:

Method Blank	Analyte	Concentration	MDL	Reporting Limit
EG702001-BLK1	Bromobenzene	0.5	0.1	1.0
	n-Butylbenzene	0.7	0.2	1.0
	sec-Butylbenzene	0.4	0.1	1.0
	4-Chlorotoluene	0.6	0.08	1.0
	1,2-Dichlorobenzene	0.4	0.08	1.0
	1,3-Dichlorobenzene	0.5	0.1	1.0
	1,4-Dichlorobenzene	0.7	0.09	1.0
	Hexachlorobutadiene	0.5	0.2	1.0
	p-Isopropyltoluene	0.4	0.1	1.0
	Naphthalene	0.3	0.05	1.0
	n-Propylbenzene	0.5	0.08	1.0
	Styrene	0.5	0.1	1.0

Method Blank	Analyte	Concentration	MDL	Reporting Limit
EG72401-BLK1	1,2,3-Trichlorobenzene	0.1	0.1	1.0
	1,2,4-Trichlorobenzene	0.1	0.07	1.0
	1,2,4-Trimethylbenzene	0.1	0.08	1.0
	1,2-Dichlorobenzene	0.2	0.08	1.0
	1,3-Dichlorobenzene	0.2	0.1	1.0
	1,4-Dichlorobenzene	0.3	0.09	1.0
	Bromobenzene	0.2	0.1	1.0
	Hexachlorobutadiene	0.2	0.2	1.0
	m,p-Xylene	0.3	0.07	2.0
	Naphthalene	0.2	0.05	1.0
	n-Butylbenzene	0.3	0.2	1.0
	n-Propylbenzene	0.2	0.08	1.0
	p-Isopropyltoluene	0.3	0.1	1.0
	sec-Butylbenzene	0.2	0.1	1.0
	Styrene	0.1	0.1	1.0

Method Blank	Analyte	Concentration	MDL	Reporting Limit
EG72501-BLK1	1,2,3-Trichlorobenzene	0.1	0.1	1.0
	1,2,4-Trichlorobenzene	0.1	0.07	1.0
	1,2,4-Trimethylbenzene	0.1	0.08	1.0
	1,3-Dichlorobenzene	0.2	0.1	1.0
	1,4-Dichlorobenzene	0.3	0.09	1.0
	2-Chlorotoluene	0.1	0.09	1.0
	Hexachlorobutadiene	0.2	0.2	1.0
	m,p-Xylene	0.3	0.07	2.0
	n-Butylbenzene	0.3	0.2	1.0
	n-Propylbenzene	0.3	0.08	1.0
	p-Isopropyltoluene	0.2	0.1	1.0
	sec-Butylbenzene	0.2	0.1	1.0

Region 5 does not qualify the data based on this criterion.

2. Blank Spike/Blank Spike Duplicate (BS/BSD) Results:

Vinyl Acetate was outside the accepted QC Limits of 18.1 - 129.1 in samples EG72501-BS1 (133%) and EG72501-BSD1 (138%). The results for this compound in the associated samples will be qualified as follows: detects will be qualified as **"K"** while non-detects will not need to be qualified. The QC Limits were updated to reflect historical data.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results:

Sample E707002-03 and E707002-08 were designated for use as sources for the MS/MSD QC samples. Sample E707002-03 is the source for QC Samples EG72001-MS1/-MSD1. Sample E707002-08 is the source for QC Samples EG72501-MS1/-MSD1. Sample E707002-08 was re-analyzed and the re-analysis was reported as E707002-08RE1.

The following analytes were detected in these samples:

Sample	Analyte	Concentration
E707002-03	Acetone	3.8
	Methylene chloride	56*
E707002-08RE1	Methylene chloride	51*
	Trichloroethene	0.9
	Acetone	4.5

**Results reported from the 10x dilution analyses*

The following tables list the analytes that were outside their respective QC Limits in the QC Samples listed and the qualification, if any, for the analytes in question.

For source sample E707002-03, non-detects **"UJ"** and detects estimated low **"L"**. In the case of Chloromethane, detects **"K"** and non-detects are not qualified:

Sample	Analytes	%Rec	QC Limits	Qualifier
EG72001-MS1	1,2-Dibromoethane (EDB)	67.7	73-107	UJ/L
EG72001-MSD1		69.4		
EG72001-MS1	2-Hexanone	45.4	116-145	UJ/L
EG72001-MSD1		50.3		
EG72001-MS1	4-Methyl-2-pentanone	62.8	108-119	UJ/L
EG72001-MSD1		60.2		
EG72001-MS1	Acetone	85.9	137-200	UJ/L
EG72001-MSD1		91.6		
EG72001-MS1	Acrylonitrile	82.8	106-109	UJ/L
EG72001-MSD1		67.6		
EG72001-MS1	Chloromethane	78.8	70-76	K
EG72001-MSD1		89.2		
EG72001-MS1	Methylene chloride	NR	44-174	UJ/J
EG72001-MSD1		NR		

The %Recoveries for Methylene Chloride in the MS/MSD samples were below that of the native sample. The results for the native sample, E707002-03, for Methylene Chloride will be qualified as follows: non-detects will be qualified as estimated **"UJ"** and detects will be qualified as estimated **"J"**. The %RPD was outside the accepted criteria of ±30% for 1,2-Dibromo-3-chloropropane in these QC Samples. Region 5 does not qualify the data based on this outlier.

For source sample E707002-08, non-detects **"UJ"** and detects estimated low **"L"**. In the case where the analyte is out in only the MS or the MSD only no qualification is required **(N/A)**:

Sample	Analyte	%Rec	QC Limits	Qualifier
EG72501-MS1	1,1,1,2-Tetrachloroethane	27.7	28-176	UJ/L
EG72501-MSD1		19.2		
EG72501-MSD1	1,1,2-Trichloroethane	23.7	27-174	N/A
EG72501-MSD1	1,1-Dichloroethane	33.8	35-177	N/A
EG72501-MS1	1,1-Dichloropropene	33.5	37-157	UJ/L
EG72501-MSD1		19.9		
EG72501-MS1	1,2,3-Trichlorobenzene	24.5	37-159	UJ/L
EG72501-MSD1		16.7		
EG72501-MS1	1,2,3-Trichloropropane	30.6	37-181	UJ/L
EG72501-MSD1		24.9		
EG72501-MS1	1,2,4-Trichlorobenzene	24.5	36-154	UJ/L
EG72501-MSD1		16.7		
EG72501-MS1	1,2,4-Trimethylbenzene	27.4	39-171	UJ/L
EG72501-MSD1		17.9		
EG72501-MS1	1,2-Dibromoethane (EDB)	27.8	73-107	UJ/L
EG72501-MSD1		22.2		
EG72501-MS1	1,2-Dichlorobenzene	28.5	47-163	UJ/L
EG72501-MSD1		21.3		

Sample	Analyte	%Rec	QC Limits	Qualifier
EG72501-MS1	1,2-Dichloropropane	33.4	44-156	UJ/L
EG72501-MSD1		23.7		
EG72501-MS1	1,3,5-Trimethylbenzene	25.0	37-171	UJ/L
EG72501-MSD1		16.7		
EG72501-MS1	1,3-Dichlorobenzene	31.2	42-173	UJ/L
EG72501-MSD1		23.9		
EG72501-MS1	1,3-Dichloropropane	33.5	42-163	UJ/L
EG72501-MSD1		26.9		
EG72501-MS1	1,4-Dichlorobenzene	29.5	41-170	UJ/L
EG72501-MSD1		23.5		
EG72501-MS1	2-Butanone	39.3	50-150	UJ/L
EG72501-MSD1		29.1		
EG72501-MS1	2-Chlorotoluene	25.1	35-173	UJ/L
EG72501-MSD1		18.8		
EG72501-MS1	2-Hexanone	20.8	116-145	UJ/L
EG72501-MSD1		16.4		
EG72501-MS1	4-Chlorotoluene	26.6	43-164	UJ/L
EG72501-MSD1		21.1		
EG72501-MS1	4-Methyl-2-pentanone	25.2	108-119	UJ/L
EG72501-MSD1		17.9		
EG72501-MS1	Acetone	31.1	137-200	UJ/L
EG72501-MSD1		24.5		
EG72501-MS1	Acrolein	41.7	50-150	UJ/L
EG72501-MSD1		30.8		
EG72501-MS1	Acrylonitrile	37.0	106-109	UJ/L
EG72501-MSD1		33.4		
EG72501-MS1	Benzene	33.4	34-167	UJ/L
EG72501-MSD1		24.1		
EG72501-MS1	Bromobenzene	27.8	44-167	UJ/L
EG72501-MSD1		22.7		
EG72501-MS1	Bromodichloromethane	29.6	36-153	N/A
EG72501-MSD1	Bromochloromethane	29.8	37-175	N/A
EG72501-MS1	Bromomethane	27.8	50-150	UJ/L
EG72501-MSD1		19.3		
EG72501-MS1	Carbon disulfide	43.6	107-117	N/A
EG72501-MSD1	Bromodichloromethane	22.0	36-153	N/A
EG72501-MSD1	Bromomethane	19.3	50-150	N/A
EG72501-MSD1	Bromoform	16.5	17-157	N/A
EG72501-MS1	Chlorobenzene	35.6	44-167	UJ/L
EG72501-MSD1		24.0		
EG72501-MS1	Chloroethane	35.5	50-150	UJ/L
EG72501-MSD1		24.2		
EG72501-MS1	Chloroform	37.6	46-157	UJ/L
EG72501-MSD1		24.5		
EG72501-MS1	Chloromethane	37.2	70-76	UJ/L
EG72501-MSD1		25.0		
EG72501-MSD1	cis-1,2-Dichloroethene	28.2	32-164	N/A
EG72501-MSD1	cis-1,3-Dichloropropene	16.8	24-156	N/A
EG72501-MSD1	Dibromochloromethane	17.9	24-168	N/A

Sample	Analyte	%Rec	QC Limits	Qualifier
EG72501-MS1	Dibromomethane	38.9	42-168	UJ/L
EG72501-MSD1		25.9		
EG72501-MS1	Dichlorodifluoromethane	36.3	50-150	UJ/L
EG72501-MSD1		23.7		
EG72501-MS1	Ethylbenzene	25.8	43-163	UJ/L
EG72501-MSD1		17.0		
EG72501-MSD1	Hexachlorobutadiene	19.4	21-166	N/A
EG72501-MS1	Isopropylbenzene	25.3	44-163	UJ/L
EG72501-MSD1		19.1		
EG72501-MS1	m,p-Xylene	25.4	45-163	UJ/L
EG72501-MSD1		18.7		
EG72501-MS1	Methylene chloride	NR	44-174	UJ/L
EG72501-MSD1		NR		
EG72501-MS1	Naphthalene	22.1	27-161	UJ/L
EG72501-MSD1		13.3		
EG72501-MS1	n-Butylbenzene	27.7	39-157	UJ/L
EG72501-MSD1		20.0		
EG72501-MS1	n-Propylbenzene	26.0	55-156	UJ/L
EG72501-MSD1		22.0		
EG72501-MS1	o-Xylene	24.8	44-163	UJ/L
EG72501-MSD1		17.7		
EG72501-MS1	p-Isopropyltoluene	25.8	46-164	UJ/L
EG72501-MSD1		20.1		
EG72501-MS1	sec-Butylbenzene	28.7	43-164	UJ/L
EG72501-MSD1		22.4		
EG72501-MS1	Styrene	24.6	43-157	UJ/L
EG72501-MSD1		19.1		
EG72501-MS1	tert-Butylbenzene	26.2	45-162	UJ/L
EG72501-MSD1		18.7		
EG72501-MS1	Tetrachloroethene	34.3	45-165	UJ/L
EG72501-MSD1		27.2		
EG72501-MS1	Toluene	30.2	51-151	UJ/L
EG72501-MSD1		21.2		
EG72501-MSD1	trans-1,2-Dichloroethene	25.6	35-179	N/A
EG72501-MS1	Trichloroethene	28.8	44-159	UJ/L
EG72501-MSD1		21.5		
EG72501-MS1	Trichlorofluoromethane	33.8	50-150	UJ/L
EG72501-MSD1		%Recovery below MDL		
EG72501-MS1	Vinyl acetate	37.5	50-150	UJ/L
EG72501-MSD1		26.3		
EG72501-MS1	Vinyl chloride	49.4	50-150	UJ/L
EG72501-MSD1		31.3		

The %Recoveries for Methylene Chloride in the MS/MSD samples were below that of the native sample. The results for the native sample for Methylene Chloride will be qualified as follows: non-detects will be qualified as estimated **"UJ"** and detects will be qualified as estimated **"J"**. The %RPD was outside the accepted criteria of ±30%

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for the following analytes in these QC Samples:

Chloroethane	m,p-Xylene	4-Methyl-2-pentanone
Dibromochloromethane	1,2,4-Trimethylbenzene	Chlorobenzene
cis-1,3-Dichloropropene	1,1-Dichloroethene	tert-Butylbenzene
cis-1,2-Dichloroethene	1,1-Dichloropropene	1,1,2-Trichloroethane
Chloromethane	1,2,3-Trichlorobenzene	Hexachlorobutadiene
Carbon tetrachloride	1,1,1,2-Tetrachloroethane	Vinyl acetate
Bromomethane	1,1,1-Trichloroethane	n-Butylbenzene
Bromoform	Dibromomethane	Naphthalene
Benzene	1,2,4-Trichlorobenzene	o-Xylene
Acrolein	Chloroform	Toluene
2,2-Dichloropropane	1,2-Dibromo-3-chloropropane	Vinyl chloride
Ethylbenzene	1,2-Dichloropropane	trans-1,2-Dichloroethene
Dichlorodifluoromethane	1,3,5-Trimethylbenzene	1,1-Dichloroethane

Region 5 does not qualify the data based on this outlier.

4. Surrogate Results:

Toluene-d8 was outside the accepted QC Limits of 85 - 115 in sample EG72501-BS1 (117%). 4-Bromofluorobenzene was outside the accepted QC Limits of 79 - 109 EG72601-BSD1 (113%). Since only one surrogate was out in these samples, the data will not need to be qualified.

IV. SAMPLE RESULTS:

All samples were analyzed on July 24, 2007 for Low Level Volatile Organic Compounds and the required dilutions were analyzed on July 25, 2007. The SIM analyses were performed on July 26, 2007.

The following are the QC samples for samples E707001-01 thru -07 and E707002-01 thru -03, -05, -06 and -10 analyzed on July 24, 2007:

EG72001-BLK1	Method Blank
EG72001-BS1	Blank Spike
EG72001-BSD1	Blank Spike Duplicate

The following are the QC samples for samples E707002-04, -07 and -09 analyzed on July 25, 2007:

EG72401-BLK1	Method Blank
EG72401-BS1	Blank Spike
EG72401-BSD1	Blank Spike Duplicate

The following are the QC samples for the re-analysis of sample E707002-08 (reported as E707002-08RE1), EG72501-MS1/-MSD1 and the 10x dilutions for samples E707001-01 thru -06, E707002-01 thru -05, -07, -08 and -09 analyzed on July 25, 2007:

EG72501-BLK1 Method Blank
EG72501-BS1 Blank Spike
EG72501-BSD1 Blank Spike Duplicate

The following are the QC samples for the SIM analyses of samples E707001-01 thru -04, E707002-01 thru -05, -07 and -09 analyzed on July 26, 2007:

EG72601-BLK1 Method Blank
EG72601-BS1 Blank Spike
EG72601-BSD1 Blank Spike Duplicate

Samples E707001-07, E707002-06 and -10 were classified as a Trip Blank. The following analytes were detected in these samples:

Method Blank	Analyte	Concentration	MDL	Reporting Limit
E707001-07	1,3-Dichlorobenzene	0.3	0.1	1.0
	1,4-Dichlorobenzene	0.6	0.09	1.0
	4-Chlorotoluene	0.4	0.08	1.0
	Acetone	4.8	3.0	5.0
	Bromobenzene	0.3	0.1	1.0
	m,p-Xylene	0.5	0.07	2.0
	Methylene chloride	36	0.6	1.0
	Naphthalene	0.4	0.05	1.0
	n-Butylbenzene	0.7	0.2	1.0
	n-Propylbenzene	0.5	0.08	1.0
	p-Isopropyltoluene	0.5	0.1	1.0
	sec-Butylbenzene	0.4	0.1	1.0
	Styrene	0.3	0.1	1.0
E707002-06	Acetone	5.6	3.0	5.0
	1,3-Dichlorobenzene	0.1	0.1	1.0
	1,4-Dichlorobenzene	0.2	0.09	1.0
	1,2,4-Trichlorobenzene	0.08	0.07	1.0
	Methylene chloride	32	0.6	1.0
	n-Butylbenzene	0.2	0.2	1.0
	n-Propylbenzene	0.1	0.08	1.0
	Naphthalene	0.1	0.05	1.0
E707002-10	1,3-Dichlorobenzene	0.2	0.1	1.0
	1,4-Dichlorobenzene	0.2	0.09	1.0
	4-Chlorotoluene	0.1	0.08	1.0
	Acetone	5.7	3.0	5.0
	Methylene chloride	31	0.6	1.0
	Naphthalene	0.1	0.05	1.0
	n-Butylbenzene	0.2	0.2	1.0
	n-Propylbenzene	0.09	0.08	1.0
	Vinyl chloride	0.08	0.07	0.20

The data is not qualified based on the results of the Trip Blank. The results for Methylene Chloride for these samples are above the calibration curve. However, since only one vial was received of each of these samples, dilution analyses were not possible. The results will be reported as estimated "J".

The temperature at sample receipt for sample E707002-07 (1.8 °C) was outside the required sample preservation temperature of

4 ± 2 °C. The end user must make a determination as to the quality of the data, since there are no regional guidelines for qualifying the data for this outlier.

The results in LIMS are in µg/L unless otherwise clearly stated.

All Quality Control measures not specifically discussed in this narrative met quality criteria stated in the SOPs.

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
TB 6 Trip Blank	E707001-07	Water	Jul-17-07 00:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
TB 7 Trip Blank	E707002-06	Water	Jul-18-07 00:00	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10
TB8 Trip Blank	E707002-10	Water	Jul-19-07 00:00	Jul-19-07 13:10

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

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Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.3			*85.0 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.3			*105 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.4			*107 %*		*63-123*	"	"	"	GCMS009
Acetone	5.2		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.2	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	0.1	J	0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.2	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

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Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloropropane	U		0.2	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	55		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

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Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	0.885			*88.5 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.991			*99.1 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.27			*127 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.5			*89.9 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.3			*107 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.8			*96.4 %*		*63-123*	"	"	"	GCMS009
Acetone	3.8	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

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BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Dibromomethane	U		0.2	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.1	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	50		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	0.07	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2,4-Trichlorobenzene	U		0.07	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.904			*90.4 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	1.04			*104 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.10			*110 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*91.6 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.4			*108 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.7			*94.7 %*		*63-123*	"	"	"	GCMS009
Acetone	3.6	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Chlorobenzene	U		0.07	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.1	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	57		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
n-Propylbenzene	U		0.08	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.912			*91.2 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	1.01			*101 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.18			*118 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*91.7 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.2			*104 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.7			*93.6 %*		*63-123*	"	"	"	GCMS009
Acetone	3.9	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

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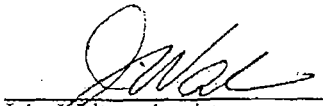
S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromodichloromethane	U		0.1	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009



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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Vinyl chloride	U		0.4	2.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	60		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	0.07	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.926			*92.6 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.945			*94.5 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.13			*113 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*91.9 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.4			*108 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.9			*98.4 %*		*63-123*	"	"	"	GCMS009
Acetone	16		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloropropane	U		0.2	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	2.7		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	49		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	0.08	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS
TechLaw - ESAT Contract

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.7			*93.8 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.6			*111 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.9			*97.6 %*		*63-123*	"	"	"	GCMS009
Acetone	U		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	0.7	J	0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	U		0.7	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	2.3		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	59		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	0.08	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
o-Xylene	U		0.1	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009

TB 6 Trip Blank (E707001-07) Water Sampled: Jul-17-07 00:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.5			*89.7 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.6			*112 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.4			*108 %*		*63-123*	"	"	"	GCMS009
Acetone	4.8	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.7	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	0.4	J	0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	0.4	J	0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB 6 Trip Blank (E707001-07) Water Sampled: Jul-17-07 00:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,4-Dichlorobenzene	0.6	J	0.09	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	0.3	J	0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	0.5	J	0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	36	J	0.6	1.0	"	"	"	"	"	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	"	"	"	"	GCMS009
Naphthalene	0.4	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.5	J	0.08	1.0	"	"	"	"	"	GCMS009
Styrene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB 6 Trip Blank (E707001-07) Water Sampled: Jul-17-07 00:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichloroethene	U		0.1	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	0.5	J	0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*93.0 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.3			*107 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.0			*99.3 %*		*63-123*	"	"	"	GCMS009
Acetone	3.7	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dibromoethane (EDB)	U		0.4	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	49		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2,3-Trichlorobenzene	U		0.1	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.870			*87.0 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.982			*98.2 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.13			*113 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*91.2 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.3			*105 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.8			*96.2 %*		*63-123*	"	"	"	GCMS009
Acetone	**4.6**	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Carbon tetrachloride	U		0.2	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	34		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	U		1.1	2.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.933			*93.3 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.896			*89.6 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.08			*108 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	0.13	J	0.07	0.20	"	"	"	"	"	GCMS009 Mo

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.3			*86.9 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.1			*103 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.7			*94.7 %*		*63-123*	"	"	"	GCMS009
Acetone	3.8	L, J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U	J	2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Bromochloromethane	U		0.5	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U	J	0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U		0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
2-Hexanone	U	J	1.0	2.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	56	J	5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U	J	0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.901			*90.1 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	1.01			*101 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.18			*118 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.5			*90.7 %*		*25-122*	*EG72401*	*Jul-24-07*	*Jul-25-07*	GCMS009
Surrogate: Toluene-d8	5.2			*104 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.2			*105 %*		*63-123*	"	"	"	GCMS009
Acetone	3.3	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.4	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.4	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloropropane	U		0.2	1.0	ug/L	1	EG72401	Jul-24-07	Jul-25-07	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	0.2	J	0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U	J	0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	50		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-25-07	GCMS009
Naphthalene	0.2	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.3	J	0.08	1.0	"	"	"	"	"	GCMS009
Styrene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	0.1	J	0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	0.4	J	0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	0.874			*87.4 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.974			*97.4 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.14			*114 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	0.14	J	0.07	0.20	"	"	"	"	"	GCMS009 Mo

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.4			*88.7 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.2			*105 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.4			*107 %*		*63-123*	"	"	"	GCMS009
Acetone	5.2		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.3	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Dibromomethane	U		0.2	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.3	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	44		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	1	"	"	Jul-24-07	GCMS009
Naphthalene	0.2	J	0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2,4-Trichlorobenzene	0.1	J	0.07	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	0.09	J	0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009
Surrogate: Benzene-d6	0.907			*90.7 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	1.08			*108 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.12			*112 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

TB 7 Trip Blank (E707002-06) Water Sampled: Jul-18-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.4			*87.7 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.6			*112 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.3			*107 %*		*63-123*	"	"	"	GCMS009
Acetone	5.6		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.2	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB 7 Trip Blank (E707002-06) Water Sampled: Jul-18-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Chlorobenzene	U		0.07	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.2	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	32	J	0.6	1.0	"	"	"	"	"	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	"	"	"	"	GCMS009
Naphthalene	0.1	J	0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB 7 Trip Blank (E707002-06) Water Sampled: Jul-18-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	U		0.7	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
n-Propylbenzene	0.1	J	0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	0.08	J	0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.8			*95.1 %*		*25-122*	*EG72401*	*Jul-24-07*	*Jul-25-07*	GCMS009
Surrogate: Toluene-d8	5.5			*109 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.1			*102 %*		*63-123*	"	"	"	GCMS009
Acetone	4.9	J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
sec-Butylbenzene	U		0.1	1.0	ug/L	1	EG72401	Jul-24-07	Jul-25-07	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	0.8	J	0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.1	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U	J	0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	49		5.8	10	"	10	"	"	Jul-25-07	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
4-Methyl-2-pentanone	U		0.8	2.0	ug/L	1	EG72401	Jul-24-07	Jul-25-07	GCMS009
Naphthalene	U		0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.09	J	0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	1.01			*101 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	1.08			*108 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.18			*118 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	U		0.07	0.20	"	"	"	"	"	GCMS009 Mo

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S87W22355 Janesville (ML15) (E707002-08RE1) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.6			*91.4 %*		*25-122*	*EG72501*	*Jul-25-07*	*Jul-25-07*	GCMS009
Surrogate: Toluene-d8	5.1			*102 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.6			*91.8 %*		*63-123*	"	"	"	GCMS009
Acetone	4.5	L, J	3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U	J	2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U	J	2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U	J	0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U	J	0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U	J	1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	U	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U	J	0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U	J	0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U	J	0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U	J	0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U	J	0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U	J	0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U	J	0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U	J	0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U	J	0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	U	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

S87W22355 Janesville (ML15) (E707002-08RE1) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloropropane	U	J	0.2	1.0	ug/L	1	EG72501	Jul-25-07	Jul-25-07	GCMS009
1,3-Dichloropropane	U	J	0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U	J	1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U	J	0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U	J	0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	51	J	5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	U	J	0.8	2.0	"	1	"	"	Jul-25-07	GCMS009
Naphthalene	U	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U	J	1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U	J	0.1	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	U	J	0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U	J	0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U	J	0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U	J	0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U	J	0.4	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	U	J	0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	0.9	L, J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U	J	0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U	J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U	J	0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U	J	0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U	J	0.1	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS
TechLaw - ESAT Contract

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.5			*89.4 %*		*25-122*	*EG72401*	*Jul-24-07*	*Jul-25-07*	GCMS009
Surrogate: Toluene-d8	5.7			*114 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	4.8			*95.1 %*		*63-123*	"	"	"	GCMS009
Acetone	U		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.5	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	0.1	J	0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	U		0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dibromoethane (EDB)	U		0.4	1.0	"	"	"	"	"	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.3	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	U		0.7	1.0	ug/L	1	EG72401	Jul-24-07	Jul-25-07	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	0.2	J	0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	0.3	J	0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U	J	0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	45		5.8	10	"	10	"	"	Jul-25-07	GCMS009
4-Methyl-2-pentanone	1.1	J	0.8	2.0	"	1	"	"	Jul-25-07	GCMS009
Naphthalene	0.3	J	0.05	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.3	J	0.08	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
1,2,3-Trichlorobenzene	0.3	J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trichlorobenzene	0.3	J	0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	0.1	J	0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	0.2	J	0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	0.2	J	0.07	2.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS
TechLaw - ESAT Contract

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
o-Xylene	U		0.1	1.0	ug/L	1	EG72401	Jul-24-07	Jul-25-07	GCMS009
Surrogate: Benzene-d6	0.858			*85.8 %*		*60-140*	*EG72601*	*Jul-26-07*	*Jul-26-07*	GCMS009 Mo
Surrogate: Toluene-d8	0.944			*94.4 %*		*60-140*	"	"	"	GCMS009 Mo
Surrogate: 4-Bromofluorobenzene	1.15			*115 %*		*60-140*	"	"	"	GCMS009 Mo
Vinyl chloride	0.08	J	0.07	0.20	"	"	"	"	"	GCMS009 Mo

TB8 Trip Blank (E707002-10) Water Sampled: Jul-19-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Surrogate: Benzene-d6	4.4			*87.5 %*		*25-122*	*EG72001*	*Jul-24-07*	*Jul-24-07*	GCMS009
Surrogate: Toluene-d8	5.1			*103 %*		*25-129*	"	"	"	GCMS009
Surrogate: 4-Bromofluorobenzene	5.1			*103 %*		*63-123*	"	"	"	GCMS009
Acetone	5.7		3.0	5.0	"	"	"	"	"	GCMS009
Acrolein	U		2.5	5.0	"	"	"	"	"	GCMS009
Acrylonitrile	U		2.6	5.0	"	"	"	"	"	GCMS009
Benzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Bromobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromochloromethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Bromodichloromethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Bromoform	U		0.2	1.0	"	"	"	"	"	GCMS009
Bromomethane	U		0.4	1.0	"	"	"	"	"	GCMS009
2-Butanone	U		1.0	5.0	"	"	"	"	"	GCMS009
n-Butylbenzene	0.2	J	0.2	1.0	"	"	"	"	"	GCMS009
sec-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
tert-Butylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Carbon disulfide	U		0.6	1.0	"	"	"	"	"	GCMS009
Carbon tetrachloride	U		0.2	1.0	"	"	"	"	"	GCMS009
Chlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
Chloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloroform	U		0.5	1.0	"	"	"	"	"	GCMS009
Chloromethane	U		0.6	1.0	"	"	"	"	"	GCMS009
2-Chlorotoluene	U		0.09	1.0	"	"	"	"	"	GCMS009
4-Chlorotoluene	0.1	J	0.08	1.0	"	"	"	"	"	GCMS009
Dibromochloromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB8 Trip Blank (E707002-10) Water Sampled: Jul-19-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dibromoethane (EDB)	U		0.4	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
Dibromomethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,2-Dichlorobenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
1,3-Dichlorobenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,4-Dichlorobenzene	0.2	J	0.09	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,2-Dichloroethane	U		0.5	1.0	"	"	"	"	"	GCMS009
1,1-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
cis-1,2-Dichloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
trans-1,2-Dichloroethene	U		0.7	1.0	"	"	"	"	"	GCMS009
1,2-Dichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3-Dichloropropane	U		0.4	1.0	"	"	"	"	"	GCMS009
2,2-Dichloropropane	U		0.6	1.0	"	"	"	"	"	GCMS009
1,1-Dichloropropene	U		0.1	1.0	"	"	"	"	"	GCMS009
cis-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
trans-1,3-Dichloropropene	U		0.4	1.0	"	"	"	"	"	GCMS009
Ethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Hexachlorobutadiene	U		0.2	1.0	"	"	"	"	"	GCMS009
2-Hexanone	U		1.0	2.0	"	"	"	"	"	GCMS009
Vinyl chloride	U		0.4	2.0	"	"	"	"	"	GCMS009
Isopropylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
Dichlorodifluoromethane	U		0.4	1.0	"	"	"	"	"	GCMS009
p-Isopropyltoluene	U		0.1	1.0	"	"	"	"	"	GCMS009
Methylene chloride	31	J	0.6	1.0	"	"	"	"	"	GCMS009
4-Methyl-2-pentanone	U		0.8	2.0	"	"	"	"	"	GCMS009
Naphthalene	0.1	J	0.05	1.0	"	"	"	"	"	GCMS009
Tetrahydrofuran	U		0.1	1.0	"	"	"	"	"	GCMS009
Trichlorofluoromethane	U		1.1	2.0	"	"	"	"	"	GCMS009
n-Propylbenzene	0.09	J	0.08	1.0	"	"	"	"	"	GCMS009
Methyl tert-butyl ether	U		0.7	1.0	"	"	"	"	"	GCMS009
Styrene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"	"	"	"	"	GCMS009
Tetrachloroethene	U		0.5	1.0	"	"	"	"	"	GCMS009
Vinyl acetate	U		0.5	2.0	"	"	"	"	"	GCMS009
Toluene	U		0.4	1.0	"	"	"	"	"	GCMS009

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS

TechLaw - ESAT Contract

TB8 Trip Blank (E707002-10) Water Sampled: Jul-19-07 00:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2,3-Trichlorobenzene	U		0.1	1.0	ug/L	1	EG72001	Jul-24-07	Jul-24-07	GCMS009
1,2,4-Trichlorobenzene	U		0.07	1.0	"	"	"	"	"	GCMS009
1,1,2-Trichloroethane	U		0.4	1.0	"	"	"	"	"	GCMS009
1,1,1-Trichloroethane	U		0.6	1.0	"	"	"	"	"	GCMS009
Trichloroethene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,3-Trichloropropane	U		0.2	1.0	"	"	"	"	"	GCMS009
1,3,5-Trimethylbenzene	U		0.1	1.0	"	"	"	"	"	GCMS009
1,2,4-Trimethylbenzene	U		0.08	1.0	"	"	"	"	"	GCMS009
m,p-Xylene	U		0.07	2.0	"	"	"	"	"	GCMS009
o-Xylene	U		0.1	1.0	"	"	"	"	"	GCMS009

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Blank (EG72001-BLK1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.4*				*ug/L*	*5.00*		*87.7*	*25-122*		
Surrogate: Toluene-d8	*5.3*				*"*	*5.00*		*106*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*5.2*				*"*	*5.00*		*103*	*63-123*		
Acetone	U		3.0	5.0	"						
Acrolein	U		2.5	5.0	"						
Acrylonitrile	U		2.6	5.0	"						
Benzene	U		0.07	1.0	"						
Bromobenzene	0.5	J	0.1	1.0	"						
Bromochloromethane	U		0.5	1.0	"						
Bromodichloromethane	U		0.1	1.0	"						
Bromoform	U		0.2	1.0	"						
Bromomethane	U		0.4	1.0	"						
2-Butanone	U		1.0	5.0	"						
n-Butylbenzene	0.7	J	0.2	1.0	"						
sec-Butylbenzene	0.4	J	0.1	1.0	"						
tert-Butylbenzene	U		0.1	1.0	"						
Carbon disulfide	U		0.6	1.0	"						
Carbon tetrachloride	U		0.2	1.0	"						
Chlorobenzene	U		0.07	1.0	"						
Chloroethane	U		0.5	1.0	"						
Chloroform	U		0.5	1.0	"						
Chloromethane	U		0.6	1.0	"						
2-Chlorotoluene	U		0.09	1.0	"						
4-Chlorotoluene	0.6	J	0.08	1.0	"						
Dibromochloromethane	U		0.4	1.0	"						
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"						
1,2-Dibromoethane (EDB)	U		0.4	1.0	"						
Dibromomethane	U		0.2	1.0	"						
1,2-Dichlorobenzene	0.4	J	0.08	1.0	"						
1,3-Dichlorobenzene	0.5	J	0.1	1.0	"						
1,4-Dichlorobenzene	0.7	J	0.09	1.0	"						
1,1-Dichloroethane	U		0.5	1.0	"						

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
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Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Blank (EG72001-BLK1) — Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloroethane	U		0.5	1.0	ug/L						
1,1-Dichloroethene	U		0.7	1.0	"						
cis-1,2-Dichloroethene	U		0.5	1.0	"						
trans-1,2-Dichloroethene	U		0.7	1.0	"						
1,2-Dichloropropane	U		0.2	1.0	"						
1,3-Dichloropropane	U		0.4	1.0	"						
2,2-Dichloropropane	U		0.6	1.0	"						
1,1-Dichloropropene	U		0.1	1.0	"						
cis-1,3-Dichloropropene	U		0.4	1.0	"						
trans-1,3-Dichloropropene	U		0.4	1.0	"						
Ethylbenzene	U		0.1	1.0	"						
Hexachlorobutadiene	0.5	J	0.2	1.0	"						
2-Hexanone	U		1.0	2.0	"						
Vinyl chloride	U		0.4	2.0	"						
Isopropylbenzene	U		0.1	1.0	"						
Dichlorodifluoromethane	U		0.4	1.0	"						
p-Isopropyltoluene	0.4	J	0.1	1.0	"						
Methylene chloride	U		0.6	1.0	"						
4-Methyl-2-pentanone	U		0.8	2.0	"						
Naphthalene	0.3	J	0.05	1.0	"						
Tetrahydrofuran	U		0.1	1.0	"						
Trichlorofluoromethane	U		1.1	2.0	"						
n-Propylbenzene	0.5	J	0.08	1.0	"						
Methyl tert-butyl ether	U		0.7	1.0	"						
Styrene	0.5	J	0.1	1.0	"						
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"						
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"						
Tetrachloroethene	U		0.5	1.0	"						
Toluene	U		0.4	1.0	"						
Vinyl acetate	U		0.5	2.0	"						
1,2,3-Trichlorobenzene	U		0.1	1.0	"						
1,2,4-Trichlorobenzene	U		0.07	1.0	"						

John Walton, chemist

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Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Blank (EG72001-BLK1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2-Trichloroethane	U		0.4	1.0	ug/L						
1,1,1-Trichloroethane	U		0.6	1.0	"						
Trichloroethene	U		0.1	1.0	"						
1,2,3-Trichloropropane	U		0.2	1.0	"						
1,3,5-Trimethylbenzene	U		0.1	1.0	"						
1,2,4-Trimethylbenzene	U		0.08	1.0	"						
m,p-Xylene	U		0.07	2.0	"						
o-Xylene	U		0.1	1.0	"						

LCS (EG72001-BS1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.9*				*ug/L*	*5.00*		*97.5*	*78-114*		
Surrogate: Toluene-d8	*5.7*				"	*5.00*		*114*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*5.1*				"	*5.00*		*101*	*59.2-140*		
Acetone	23.1		3.0	5.0	"	25.0		92.5	29.4-146		
Acrolein	25.3		2.5	5.0	"	25.0		101	20-137		
Acrylonitrile	24.5		2.6	5.0	"	25.0		97.9	41.8-152		
Benzene	5.5		0.07	1.0	"	5.00		110	39.4-159		
Bromobenzene	5.4		0.1	1.0	"	5.00		108	10.1-182		
Bromochloromethane	5.0		0.5	1.0	"	5.00		99.2	32-159		
Bromodichloromethane	4.9		0.1	1.0	"	5.00		98.4	35.2-146		
Bromoform	5.0		0.2	1.0	"	5.00		100	19.7-152		
Bromomethane	5.0		0.4	1.0	"	5.00		99.3	8.32-179		
2-Butanone	28.2		1.0	5.0	"	25.0		113	21.2-184		
n-Butylbenzene	5.6		0.2	1.0	"	5.00		112	29.6-162		
sec-Butylbenzene	5.6		0.1	1.0	"	5.00		113	21.1-173		
tert-Butylbenzene	5.7		0.1	1.0	"	5.00		115	13.2-193		
Carbon tetrachloride	5.7		0.2	1.0	"	5.00		114	27.2-172		
Chlorobenzene	6.5		0.07	1.0	"	5.00		129	8.18-192		
Chloroethane	4.8		0.5	1.0	"	5.00		95.6	17.4-183		
Chloroform	5.0		0.5	1.0	"	5.00		99.4	37.6-159		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72001 - voa DW

LCS (EG72001-BS1) — Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chloromethane	4.6		0.6	1.0	ug/L	5.00		92.0	13.4-184		
2-Chlorotoluene	5.6		0.09	1.0	"	5.00		112	18.9-176		
4-Chlorotoluene	5.1		0.08	1.0	"	5.00		103	18-167		
Dibromochloromethane	4.8		0.4	1.0	"	5.00		96.7	39-132		
1,2-Dibromo-3-chloropropane	5.6		0.2	1.0	"	5.00		111	36-141		
1,2-Dibromoethane (EDB)	5.4		0.4	1.0	"	5.00		107	36.6-152		
Dibromomethane	5.0		0.2	1.0	"	5.00		100	35.5-151		
1,2-Dichlorobenzene	5.1		0.08	1.0	"	5.00		102	36.7-148		
1,3-Dichlorobenzene	5.2		0.1	1.0	"	5.00		105	20.7-163		
1,4-Dichlorobenzene	5.0		0.09	1.0	"	5.00		101	19.4-160		
1,1-Dichloroethane	5.1		0.5	1.0	"	5.00		102	27.6-164		
1,2-Dichloroethane	4.9		0.5	1.0	"	5.00		97.9	29.9-158		
1,1-Dichloroethene	5.2		0.7	1.0	"	5.00		104	21.4-178		
cis-1,2-Dichloroethene	4.8		0.5	1.0	"	5.00		95.3	32.7-154		
trans-1,2-Dichloroethene	4.8		0.7	1.0	"	5.00		96.1	15.9-168		
1,2-Dichloropropane	5.0		0.2	1.0	"	5.00		99.6	34.9-152		
1,3-Dichloropropane	5.6		0.4	1.0	"	5.00		112	37.8-153		
2,2-Dichloropropane	5.5		0.6	1.0	"	5.00		109	38.8-167		
1,1-Dichloropropene	5.8		0.1	1.0	"	5.00		116	29.7-177		
cis-1,3-Dichloropropene	5.1		0.4	1.0	"	5.00		103	53.9-143		
trans-1,3-Dichloropropene	5.4		0.4	1.0	"	5.00		108	47.8-139		
Ethylbenzene	5.9		0.1	1.0	"	5.00		119	18.2-187		
Hexachlorobutadiene	5.6		0.2	1.0	"	5.00		113	33.9-156		
2-Hexanone	10.4		1.0	2.0	"	10.0		104	40.2-138		
Vinyl chloride	5.3		0.4	2.0	"	5.00		106	14.9-223		
Isopropylbenzene	6.0		0.1	1.0	"	5.00		120	11.1-195		
Dichlorodifluoromethane	4.7		0.4	1.0	"	5.00		94.4	37.4-202		
p-Isopropyltoluene	5.5		0.1	1.0	"	5.00		111	20.6-172		
Methylene chloride	4.9		0.6	1.0	"	5.00		97.1	33.7-149		
4-Methyl-2-pentanone	9.8		0.8	2.0	"	10.0		98.1	41.1-146		
Naphthalene	6.3		0.05	1.0	"	5.00		126	29.3-160		
Tetrahydrofuran	5.1		0.1	1.0	"				0-200		

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Batch EG72001 - voa DW

LCS (EG72001-BS1) — Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichlorofluoromethane	4.9		1.1	2.0	ug/L	5.00		98.7	17.8-214		
n-Propylbenzene	5.5		0.08	1.0	"	5.00		110	22.1-163		
Methyl tert-butyl ether	4.9		0.7	1.0	"				0-200		
Styrene	5.2		0.1	1.0	"	5.00		105	17.3-163		
1,1,2,2-Tetrachloroethane	5.2		0.2	1.0	"	5.00		105	24.2-154		
1,1,1,2-Tetrachloroethane	5.2		0.1	1.0	"	5.00		104	28-176		
Tetrachloroethene	5.9		0.5	1.0	"	5.00		117	25.8-174		
Vinyl acetate	10.8		0.5	2.0	"	10.0		108	18.1-129.1		
Toluene	5.6		0.4	1.0	"	5.00		112	33.2-158		
1,2,3-Trichlorobenzene	5.5		0.1	1.0	"	5.00		109	38.9-153		
1,2,4-Trichlorobenzene	5.5		0.07	1.0	"	5.00		109	34.8-154		
1,1,2-Trichloroethane	5.1		0.4	1.0	"	5.00		101	35.9-150		
1,1,1-Trichloroethane	5.5		0.6	1.0	"	5.00		110	29.5-176		
Trichloroethene	5.2		0.1	1.0	"	5.00		105	37.7-163		
1,2,3-Trichloropropane	5.2		0.2	1.0	"	5.00		104	20.6-167		
1,3,5-Trimethylbenzene	5.5		0.1	1.0	"	5.00		111	12.3-192		
1,2,4-Trimethylbenzene	5.3		0.08	1.0	"	5.00		106	19.3-177		
m,p-Xylene	11.2		0.07	2.0	"	10.0		112	15.4-167		
o-Xylene	5.5		0.1	1.0	"	5.00		110	12.8-196		

LCS Dup (EG72001-BSD1) — Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.8*				*ug/L*	*5.00*		*95.4*	*78-114*		
Surrogate: Toluene-d8	*5.7*				*"*	*5.00*		*115*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*4.8*				*"*	*5.00*		*96.0*	*59.2-140*		
Acetone	25.7		3.0	5.0	"	25.0		103	29.4-146	10.6	30
Acrolein	23.7		2.5	5.0	"	25.0		95.0	20-137	6.18	30
Acrylonitrile	27.4		2.6	5.0	"	25.0		110	41.8-152	11.2	30
Benzene	5.7		0.07	1.0	"	5.00		114	39.4-159	3.87	30
Bromobenzene	5.3		0.1	1.0	"	5.00		106	10.1-182	1.99	30
Bromochloromethane	4.9		0.5	1.0	"	5.00		98.9	32-159	0.339	30

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LCS Dup (EG72001-BSD1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromodichloromethane	5.6		0.1	1.0	ug/L	5.00		112	35.2-146	13.3	30
Bromoform	5.2		0.2	1.0	"	5.00		103	19.7-152	3.18	30
Bromomethane	5.7		0.4	1.0	"	5.00		114	8.32-179	14.1	30
2-Butanone	31.7		1.0	5.0	"	25.0		127	21.2-184	11.5	30
n-Butylbenzene	6.1		0.2	1.0	"	5.00		123	29.6-162	9.12	30
sec-Butylbenzene	5.9		0.1	1.0	"	5.00		118	21.1-173	4.73	30
tert-Butylbenzene	6.0		0.1	1.0	"	5.00		120	13.2-193	4.70	30
Carbon tetrachloride	6.3		0.2	1.0	"	5.00		127	27.2-172	10.6	30
Chlorobenzene	6.7		0.07	1.0	"	5.00		133	8.18-192	3.18	30
Chloroethane	5.6		0.5	1.0	"	5.00		112	17.4-183	16.1	30
Chloroform	5.5		0.5	1.0	"	5.00		110	37.6-159	9.83	30
Chloromethane	5.4		0.6	1.0	"	5.00		108	13.4-184	15.7	30
2-Chlorotoluene	5.7		0.09	1.0	"	5.00		114	18.9-176	2.08	30
4-Chlorotoluene	5.3		0.08	1.0	"	5.00		106	18-167	2.86	30
Dibromochloromethane	5.2		0.4	1.0	"	5.00		104	39-132	6.98	30
1,2-Dibromo-3-chloropropane	5.3		0.2	1.0	"	5.00		105	36-141	5.46	30
1,2-Dibromoethane (EDB)	5.3		0.4	1.0	"	5.00		107	36.6-152	0.337	30
Dibromomethane	5.4		0.2	1.0	"	5.00		108	35.5-151	6.93	30
1,2-Dichlorobenzene	5.4		0.08	1.0	"	5.00		108	36.7-148	5.21	30
1,3-Dichlorobenzene	5.3		0.1	1.0	"	5.00		105	20.7-163	0.693	30
1,4-Dichlorobenzene	5.1		0.09	1.0	"	5.00		103	19.4-160	1.88	30
1,1-Dichloroethane	5.7		0.5	1.0	"	5.00		114	27.6-164	11.3	30
1,2-Dichloroethane	5.3		0.5	1.0	"	5.00		106	29.9-158	7.91	30
1,1-Dichloroethene	5.8		0.7	1.0	"	5.00		115	21.4-178	10.8	30
cis-1,2-Dichloroethene	5.5		0.5	1.0	"	5.00		109	32.7-154	13.5	30
trans-1,2-Dichloroethene	5.9		0.7	1.0	"	5.00		117	15.9-168	19.7	30
1,2-Dichloropropane	5.4		0.2	1.0	"	5.00		108	34.9-152	8.03	30
1,3-Dichloropropane	5.2		0.4	1.0	"	5.00		103	37.8-153	7.92	30
2,2-Dichloropropane	6.1		0.6	1.0	"	5.00		122	38.8-167	10.7	30
1,1-Dichloropropene	6.4		0.1	1.0	"	5.00		127	29.7-177	9.18	30
cis-1,3-Dichloropropene	5.5		0.4	1.0	"	5.00		109	53.9-143	5.96	30
trans-1,3-Dichloropropene	5.2		0.4	1.0	"	5.00		104	47.8-139	3.11	30

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Batch EG72001 - voa DW

LCS Dup (EG72001-BSD1) — Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Ethylbenzene	6.1		0.1	1.0	ug/L	5.00		122	18.2-187	2.47	30
Hexachlorobutadiene	5.9		0.2	1.0	"	5.00		119	33.9-156	4.95	30
2-Hexanone	11.7		1.0	2.0	"	10.0		117	40.2-138	12.5	30
Vinyl chloride	6.1		0.4	2.0	"	5.00		122	14.9-223	13.6	30
Isopropylbenzene	6.0		0.1	1.0	"	5.00		120	11.1-195	0.447	30
Dichlorodifluoromethane	5.7		0.4	1.0	"	5.00		115	37.4-202	19.5	30
p-Isopropyltoluene	5.7		0.1	1.0	"	5.00		115	20.6-172	3.49	30
Methylene chloride	5.4		0.6	1.0	"	5.00		108	33.7-149	11.0	30
4-Methyl-2-pentanone	12.0		0.8	2.0	"	10.0		120	41.1-146	19.9	30
Naphthalene	6.2		0.05	1.0	"	5.00		124	29.3-160	1.87	30
Tetrahydrofuran	5.1		0.1	1.0	"				0-200		200
Trichlorofluoromethane	5.8		1.1	2.0	"	5.00		116	17.8-214	16.2	30
n-Propylbenzene	5.4		0.08	1.0	"	5.00		109	22.1-163	0.850	30
Methyl tert-butyl ether	5.2		0.7	1.0	"				0-200		200
Styrene	5.1		0.1	1.0	"	5.00		103	17.3-163	1.58	30
1,1,2,2-Tetrachloroethane	5.3		0.2	1.0	"	5.00		107	24.2-154	1.65	30
1,1,1,2-Tetrachloroethane	5.5		0.1	1.0	"	5.00		111	28-176	6.05	30
Tetrachloroethene	6.1		0.5	1.0	"	5.00		122	25.8-174	4.19	30
Vinyl acetate	10.8		0.5	2.0	"	10.0		108	18.1-129.1	0.0742	30
Toluene	5.6		0.4	1.0	"	5.00		112	33.2-158	0.0214	30
1,2,3-Trichlorobenzene	5.8		0.1	1.0	"	5.00		116	38.9-153	5.58	30
1,2,4-Trichlorobenzene	5.8		0.07	1.0	"	5.00		116	34.8-154	5.58	30
1,1,2-Trichloroethane	5.6		0.4	1.0	"	5.00		112	35.9-150	9.90	30
1,1,1-Trichloroethane	6.3		0.6	1.0	"	5.00		126	29.5-176	12.9	30
Trichloroethene	5.8		0.1	1.0	"	5.00		116	37.7-163	10.7	30
1,2,3-Trichloropropane	5.3		0.2	1.0	"	5.00		107	20.6-167	2.58	30
1,3,5-Trimethylbenzene	6.0		0.1	1.0	"	5.00		120	12.3-192	8.06	30
1,2,4-Trimethylbenzene	5.6		0.08	1.0	"	5.00		113	19.3-177	5.95	30
m,p-Xylene	11.6		0.07	2.0	"	10.0		116	15.4-167	3.34	30
o-Xylene	5.7		0.1	1.0	"	5.00		114	12.8-196	3.75	30

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Matrix Spike (EG72001-MS1) **Source: E707002-03** **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.9*				*ug/L*	*5.00*		*98.1*	*25-122*		
Surrogate: Toluene-d8	*5.7*				*"*	*5.00*		*115*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*4.7*				*"*	*5.00*		*93.1*	*63-123*		
Acetone	25.3		3.0	5.0	"	25.0	3.8	85.9	137-200		
Acrolein	14.7		2.5	5.0	"	25.0	U	58.8	50-150		
Acrylonitrile	20.7		2.6	5.0	"	25.0	U	82.8	106-109		
Benzene	4.2		0.07	1.0	"	5.00	U	84.8	34-167		
Bromobenzene	3.5		0.1	1.0	"	5.00	U	70.2	44-167		
Bromochloromethane	4.4		0.5	1.0	"	5.00	U	87.9	37-175		
Bromodichloromethane	3.8		0.1	1.0	"	5.00	U	75.1	36-153		
Bromoform	3.1		0.2	1.0	"	5.00	U	62.9	17-157		
Bromomethane	3.5		0.4	1.0	"	5.00	U	70.1	50-150		
2-Butanone	16.3		1.0	5.0	"	25.0	U	65.3	50-150		
n-Butylbenzene	3.9		0.2	1.0	"	5.00	U	77.8	39-157		
sec-Butylbenzene	3.7		0.1	1.0	"	5.00	U	74.6	43-164		
tert-Butylbenzene	3.8		0.1	1.0	"	5.00	U	76.5	45-162		
Carbon tetrachloride	4.6		0.2	1.0	"	5.00	U	91.7	9-173		
Chlorobenzene	3.6		0.07	1.0	"	5.00	U	71.4	44-167		
Chloroethane	4.0		0.5	1.0	"	5.00	U	80.7	50-150		
Chloroform	4.2		0.5	1.0	"	5.00	U	84.2	46-157		
Chloromethane	3.9		0.6	1.0	"	5.00	U	78.8	70-76		
2-Chlorotoluene	3.6		0.09	1.0	"	5.00	U	72.2	35-173		
4-Chlorotoluene	3.4		0.08	1.0	"	5.00	U	68.4	43-164		
Dibromochloromethane	3.3		0.4	1.0	"	5.00	U	66.5	24-168		
1,2-Dibromo-3-chloropropane	3.7		0.2	1.0	"	5.00	U	74.3	11-188		
1,2-Dibromoethane (EDB)	3.4		0.4	1.0	"	5.00	U	67.7	73-107		
Dibromomethane	4.0		0.2	1.0	"	5.00	U	80.4	42-168		
1,2-Dichlorobenzene	3.5		0.08	1.0	"	5.00	U	70.0	47-163		
1,3-Dichlorobenzene	3.5		0.1	1.0	"	5.00	U	70.9	42-173		
1,4-Dichlorobenzene	3.4		0.09	1.0	"	5.00	U	69.0	41-170		
1,1-Dichloroethane	4.3		0.5	1.0	"	5.00	U	85.0	35-177		
1,2-Dichloroethane	3.8		0.5	1.0	"	5.00	U	76.0	20-188		

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Matrix Spike (EG72001-MS1) Source: E707002-03 Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	4.8		0.7	1.0	ug/L	5.00	U	95.6	4-173		
cis-1,2-Dichloroethene	4.2		0.5	1.0	"	5.00	U	84.8	32-164		
trans-1,2-Dichloroethene	3.3		0.7	1.0	"	5.00	U	65.7	35-179		
1,2-Dichloropropane	3.9		0.2	1.0	"	5.00	U	77.2	44-156		
1,3-Dichloropropane	3.9		0.4	1.0	"	5.00	U	77.7	42-163		
2,2-Dichloropropane	4.3		0.6	1.0	"	5.00	U	85.4	12-158		
1,1-Dichloropropene	4.6		0.1	1.0	"	5.00	U	91.5	37-157		
cis-1,3-Dichloropropene	3.6		0.4	1.0	"	5.00	U	71.6	24-156		
trans-1,3-Dichloropropene	3.4		0.4	1.0	"	5.00	U	67.6	12-160		
Ethylbenzene	3.8		0.1	1.0	"	5.00	U	76.4	43-163		
Hexachlorobutadiene	3.7		0.2	1.0	"	5.00	U	74.1	21-166		
2-Hexanone	4.5		1.0	2.0	"	10.0	U	45.4	116-145		
Vinyl chloride	5.3		0.4	2.0	"	5.00	U	106	50-150		
Isopropylbenzene	3.7		0.1	1.0	"	5.00	U	74.5	44-163		
Dichlorodifluoromethane	4.1		0.4	1.0	"	5.00	U	81.4	50-150		
p-Isopropyltoluene	3.6		0.1	1.0	"	5.00	U	72.8	46-164		
Methylene chloride	33.6		0.6	1.0	"	5.00	55.5	NR	44-174		
4-Methyl-2-pentanone	6.3		0.8	2.0	"	10.0	U	62.8	108-119		
Naphthalene	3.3		0.05	1.0	"	5.00	U	66.5	27-161		
Tetrahydrofuran	2.5		0.1	1.0	"		U		0-200		
Trichlorofluoromethane	4.2		1.1	2.0	"	5.00	U	84.0	50-150		
Methyl tert-butyl ether	2.5		0.7	1.0	"		U		0-200		
n-Propylbenzene	3.4		0.08	1.0	"	5.00	U	67.4	55-156		
Styrene	3.2		0.1	1.0	"	5.00	U	64.5	43-157		
1,1,2,2-Tetrachloroethane	3.8		0.2	1.0	"	5.00	U	75.1	20-215		
1,1,1,2-Tetrachloroethane	3.8		0.1	1.0	"	5.00	U	75.1	28-176		
Tetrachloroethene	4.4		0.5	1.0	"	5.00	U	87.8	45-165		
Toluene	3.7		0.4	1.0	"	5.00	U	73.9	51-151		
Vinyl acetate	7.4		0.5	2.0	"	10.0	U	74.0	50-150		
1,2,3-Trichlorobenzene	3.5		0.1	1.0	"	5.00	U	71.0	37-159		
1,2,4-Trichlorobenzene	3.5		0.07	1.0	"	5.00	U	71.0	36-154		
1,1,2-Trichloroethane	3.9		0.4	1.0	"	5.00	U	78.3	27-174		

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Matrix Spike (EG72001-MS1) Source: E707002-03 Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.7		0.6	1.0	ug/L	5.00	U	93.0	18-180		
Trichloroethene	4.4		0.1	1.0	"	5.00	U	87.6	44-159		
1,2,3-Trichloropropane	3.6		0.2	1.0	"	5.00	U	72.7	37-181		
1,3,5-Trimethylbenzene	3.8		0.1	1.0	"	5.00	U	76.1	37-171		
1,2,4-Trimethylbenzene	3.8		0.08	1.0	"	5.00	U	75.9	39-171		
m,p-Xylene	7.4		0.07	2.0	"	10.0	U	74.4	45-163		
o-Xylene	3.6		0.1	1.0	"	5.00	U	72.4	44-163		

Matrix Spike Dup (EG72001-MSD1) Source: E707002-03 Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*5.1*				*ug/L*	*5.00*		*102*	*25-122*		
Surrogate: Toluene-d8	*6.1*				*"*	*5.00*		*121*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*4.8*				*"*	*5.00*		*96.4*	*63-123*		
Acetone	26.7		3.0	5.0	"	25.0	3.8	91.6	137-200	6.37	30
Acrolein	18.8		2.5	5.0	"	25.0	U	75.3	50-150	24.6	30
Acrylonitrile	16.9		2.6	5.0	"	25.0	U	67.6	106-109	20.2	30
Benzene	3.9		0.07	1.0	"	5.00	U	77.5	34-167	8.96	30
Bromobenzene	2.9		0.1	1.0	"	5.00	U	58.5	44-167	18.2	30
Bromochloromethane	3.6		0.5	1.0	"	5.00	U	71.5	37-175	20.5	30
Bromodichloromethane	3.2		0.1	1.0	"	5.00	U	63.6	36-153	16.7	30
Bromoform	2.6		0.2	1.0	"	5.00	U	51.3	17-157	20.4	30
Bromomethane	4.1		0.4	1.0	"	5.00	U	81.9	50-150	15.5	30
2-Butanone	13.6		1.0	5.0	"	25.0	U	54.2	50-150	18.5	30
n-Butylbenzene	3.1		0.2	1.0	"	5.00	U	63.0	39-157	21.1	30
sec-Butylbenzene	3.1		0.1	1.0	"	5.00	U	62.9	43-164	16.9	30
tert-Butylbenzene	3.2		0.1	1.0	"	5.00	U	63.4	45-162	18.8	30
Carbon tetrachloride	3.9		0.2	1.0	"	5.00	U	77.3	9-173	17.0	30
Chlorobenzene	3.7		0.07	1.0	"	5.00	U	73.2	44-167	2.46	30
Chloroethane	4.6		0.5	1.0	"	5.00	U	91.4	50-150	12.4	30
Chloroform	3.7		0.5	1.0	"	5.00	U	73.4	46-157	13.8	30
Chloromethane	4.5		0.6	1.0	"	5.00	U	89.2	70-76	12.4	30

John Walton, chemist

Report Name: E707002,E707001 FINAL Aug 08 07 1445

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Matrix Spike Dup (EG72001-MSD1) Source: E707002-03 Prepared & Analyzed: Jul-24-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Chlorotoluene	2.8		0.09	1.0	ug/L	5.00	U	56.7	35-173	24.0	30
4-Chlorotoluene	2.9		0.08	1.0	"	5.00	U	57.3	43-164	17.8	30
Dibromochloromethane	2.8		0.4	1.0	"	5.00	U	56.6	24-168	16.0	30
1,2-Dibromo-3-chloropropane	2.6		0.2	1.0	"	5.00	U	52.8	11-188	33.8	30
1,2-Dibromoethane (EDB)	3.5		0.4	1.0	"	5.00	U	69.4	73-107	2.45	30
Dibromomethane	3.4		0.2	1.0	"	5.00	U	67.6	42-168	17.3	30
1,2-Dichlorobenzene	3.1		0.08	1.0	"	5.00	U	61.8	47-163	12.5	30
1,3-Dichlorobenzene	3.0		0.1	1.0	"	5.00	U	59.7	42-173	17.1	30
1,4-Dichlorobenzene	2.8		0.09	1.0	"	5.00	U	56.3	41-170	20.2	30
1,1-Dichloroethane	3.8		0.5	1.0	"	5.00	U	76.0	35-177	11.2	30
1,2-Dichloroethane	3.5		0.5	1.0	"	5.00	U	69.0	20-188	9.62	30
1,1-Dichloroethene	3.8		0.7	1.0	"	5.00	U	76.9	4-173	21.7	30
cis-1,2-Dichloroethene	3.1		0.5	1.0	"	5.00	U	62.8	32-164	29.8	30
trans-1,2-Dichloroethene	3.2		0.7	1.0	"	5.00	U	63.4	35-179	3.55	30
1,2-Dichloropropane	3.5		0.2	1.0	"	5.00	U	69.4	44-156	10.7	30
1,3-Dichloropropane	3.4		0.4	1.0	"	5.00	U	67.5	42-163	14.0	30
2,2-Dichloropropane	3.7		0.6	1.0	"	5.00	U	74.6	12-158	13.5	30
1,1-Dichloropropene	3.8		0.1	1.0	"	5.00	U	76.7	37-157	17.5	30
cis-1,3-Dichloropropene	3.2		0.4	1.0	"	5.00	U	63.8	24-156	11.5	30
trans-1,3-Dichloropropene	3.2		0.4	1.0	"	5.00	U	64.6	12-160	4.50	30
Ethylbenzene	2.9		0.1	1.0	"	5.00	U	58.0	43-163	27.4	30
Hexachlorobutadiene	3.1		0.2	1.0	"	5.00	U	62.6	21-166	16.9	30
2-Hexanone	5.0		1.0	2.0	"	10.0	U	50.3	116-145	10.1	30
Vinyl chloride	6.0		0.4	2.0	"	5.00	U	121	50-150	13.4	30
Isopropylbenzene	3.0		0.1	1.0	"	5.00	U	60.5	44-163	20.7	30
Dichlorodifluoromethane	4.6		0.4	1.0	"	5.00	U	93.0	50-150	13.3	30
p-Isopropyltoluene	3.0		0.1	1.0	"	5.00	U	61.0	46-164	17.7	30
Methylene chloride	34.1		0.6	1.0	"	5.00	55.5	NR	44-174	NR	30
4-Methyl-2-pentanone	6.0		0.8	2.0	"	10.0	U	60.2	108-119	4.28	30
Naphthalene	2.7		0.05	1.0	"	5.00	U	55.0	27-161	19.0	30
Tetrahydrofuran	3.3		0.1	1.0	"		U		0-200		200
Trichlorofluoromethane	4.7		1.1	2.0	"	5.00	U	94.8	50-150	12.0	30

John Walton, chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72001 - voa DW

Matrix Spike Dup (EG72001-MSD1) **Source: E707002-03** **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methyl tert-butyl ether	3.3		0.7	1.0	ug/L		U		0-200		200
n-Propylbenzene	2.9		0.08	1.0	"	5.00	U	58.1	55-156	14.8	30
Styrene	2.8		0.1	1.0	"	5.00	U	55.7	43-157	14.6	30
1,1,2,2-Tetrachloroethane	3.0		0.2	1.0	"	5.00	U	60.4	20-215	21.8	30
1,1,1,2-Tetrachloroethane	2.8		0.1	1.0	"	5.00	U	57.0	28-176	27.4	30
Tetrachloroethene	3.7		0.5	1.0	"	5.00	U	74.9	45-165	15.9	30
Vinyl acetate	7.2		0.5	2.0	"	10.0	U	72.1	50-150	2.62	30
Toluene	3.6		0.4	1.0	"	5.00	U	71.3	51-151	3.59	30
1,2,3-Trichlorobenzene	2.9		0.1	1.0	"	5.00	U	58.0	37-159	20.1	30
1,2,4-Trichlorobenzene	2.9		0.07	1.0	"	5.00	U	58.0	36-154	20.1	30
1,1,2-Trichloroethane	3.3		0.4	1.0	"	5.00	U	65.4	27-174	18.0	30
1,1,1-Trichloroethane	4.0		0.6	1.0	"	5.00	U	80.3	18-180	14.6	30
Trichloroethene	3.4		0.1	1.0	"	5.00	U	67.1	44-159	26.4	30
1,2,3-Trichloropropane	3.0		0.2	1.0	"	5.00	U	59.3	37-181	20.3	30
1,3,5-Trimethylbenzene	2.9		0.1	1.0	"	5.00	U	58.2	37-171	26.6	30
1,2,4-Trimethylbenzene	2.9		0.08	1.0	"	5.00	U	58.4	39-171	26.1	30
m,p-Xylene	6.0		0.07	2.0	"	10.0	U	60.2	45-163	21.1	30
o-Xylene	2.9		0.1	1.0	"	5.00	U	58.2	44-163	21.8	30

Batch EG72401 - voa DW

Blank (EG72401-BLK1) **Prepared: Jul-24-07 Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.5*				*ug/L*	*5.00*		*89.8*	*25-122*		
Surrogate: Toluene-d8	*5.2*				*"*	*5.00*		*105*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*5.1*				*"*	*5.00*		*102*	*63-123*		
Acetone	U		3.0	5.0	"						
Acrolein	U		2.5	5.0	"						
Acrylonitrile	U		2.6	5.0	"						
Benzene	U		0.07	1.0	"						
Bromobenzene	0.2	J	0.1	1.0	"						
Bromochloromethane	U		0.5	1.0	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72401 - voa DW

Blank (EG72401-BLK1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Bromodichloromethane	U		0.1	1.0	ug/L						
Bromoform	U		0.2	1.0	"						
Bromomethane	U		0.4	1.0	"						
2-Butanone	U		1.0	5.0	"						
n-Butylbenzene	0.3	J	0.2	1.0	"						
sec-Butylbenzene	0.2	J	0.1	1.0	"						
tert-Butylbenzene	U		0.1	1.0	"						
Carbon disulfide	U		0.6	1.0	"						
Carbon tetrachloride	U		0.2	1.0	"						
Chlorobenzene	U		0.07	1.0	"						
Chloroethane	U		0.5	1.0	"						
Chloroform	U		0.5	1.0	"						
Chloromethane	U		0.6	1.0	"						
2-Chlorotoluene	U		0.09	1.0	"						
4-Chlorotoluene	U		0.08	1.0	"						
Dibromochloromethane	U		0.4	1.0	"						
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"						
1,2-Dibromoethane (EDB)	U		0.4	1.0	"						
Dibromomethane	U		0.2	1.0	"						
1,2-Dichlorobenzene	0.2	J	0.08	1.0	"						
1,3-Dichlorobenzene	0.2	J	0.1	1.0	"						
1,4-Dichlorobenzene	0.3	J	0.09	1.0	"						
1,1-Dichloroethane	U		0.5	1.0	"						
1,2-Dichloroethane	U		0.5	1.0	"						
1,1-Dichloroethene	U		0.7	1.0	"						
cis-1,2-Dichloroethene	U		0.5	1.0	"						
trans-1,2-Dichloroethene	U		0.7	1.0	"						
1,2-Dichloropropane	U		0.2	1.0	"						
1,3-Dichloropropane	U		0.4	1.0	"						
2,2-Dichloropropane	U		0.6	1.0	"						
1,1-Dichloropropene	U		0.1	1.0	"						
cis-1,3-Dichloropropene	U		0.4	1.0	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

Blank (EG72401-BLK1) — **Prepared & Analyzed: Jul-24-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	U		0.4	1.0	ug/L						
Ethylbenzene	U		0.1	1.0	"						
Hexachlorobutadiene	0.2	J	0.2	1.0	"						
2-Hexanone	U		1.0	2.0	"						
Vinyl chloride	U	J	0.4	2.0	"						
Isopropylbenzene	U		0.1	1.0	"						
Dichlorodifluoromethane	U		0.4	1.0	"						
p-Isopropyltoluene	0.3	J	0.1	1.0	"						
Methylene chloride	U		0.6	1.0	"						
4-Methyl-2-pentanone	U		0.8	2.0	"						
Naphthalene	0.2	J	0.05	1.0	"						
Tetrahydrofuran	U		0.1	1.0	"						
Trichlorofluoromethane	U		1.1	2.0	"						
n-Propylbenzene	0.2	J	0.08	1.0	"						
Methyl tert-butyl ether	U		0.7	1.0	"						
Styrene	0.1	J	0.1	1.0	"						
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"						
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"						
Tetrachloroethene	U		0.5	1.0	"						
Vinyl acetate	U		0.5	2.0	"						
Toluene	U		0.4	1.0	"						
1,2,3-Trichlorobenzene	0.1	J	0.1	1.0	"						
1,2,4-Trichlorobenzene	0.1	J	0.07	1.0	"						
1,1,2-Trichloroethane	U		0.4	1.0	"						
1,1,1-Trichloroethane	U		0.6	1.0	"						
Trichloroethene	U		0.1	1.0	"						
1,2,3-Trichloropropane	U		0.2	1.0	"						
1,3,5-Trimethylbenzene	U		0.1	1.0	"						
1,2,4-Trimethylbenzene	0.1	J	0.08	1.0	"						
m,p-Xylene	0.3	J	0.07	2.0	"						
o-Xylene	U		0.1	1.0	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

LCS (EG72401-BS1) — Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	5.0				ug/L	5.00		99.6	78-114		
Surrogate: Toluene-d8	5.7				"	5.00		115	85-115		
Surrogate: 4-Bromofluorobenzene	5.1				"	5.00		101	59.2-140		
Acetone	26.2		3.0	5.0	"	25.0		105	29.4-146		
Acrolein	23.7		2.5	5.0	"	25.0		94.7	20-137		
Acrylonitrile	29.9		2.6	5.0	"	25.0		120	41.8-152		
Benzene	5.6		0.07	1.0	"	5.00		113	39.4-159		
Bromobenzene	5.4		0.1	1.0	"	5.00		107	10.1-182		
Bromochloromethane	6.1		0.5	1.0	"	5.00		123	32-159		
Bromodichloromethane	5.4		0.1	1.0	"	5.00		109	35.2-146		
Bromoform	4.9		0.2	1.0	"	5.00		97.4	19.7-152		
Bromomethane	5.4		0.4	1.0	"	5.00		108	8.32-179		
2-Butanone	30.5		1.0	5.0	"	25.0		122	21.2-184		
n-Butylbenzene	5.4		0.2	1.0	"	5.00		107	29.6-162		
sec-Butylbenzene	5.8		0.1	1.0	"	5.00		116	21.1-173		
tert-Butylbenzene	6.1		0.1	1.0	"	5.00		122	13.2-193		
Carbon tetrachloride	6.3		0.2	1.0	"	5.00		125	27.2-172		
Chlorobenzene	6.7		0.07	1.0	"	5.00		135	8.18-192		
Chloroethane	5.7		0.5	1.0	"	5.00		114	17.4-183		
Chloroform	6.0		0.5	1.0	"	5.00		120	37.6-159		
Chloromethane	5.5		0.6	1.0	"	5.00		110	13.4-184		
2-Chlorotoluene	5.7		0.09	1.0	"	5.00		115	18.9-176		
4-Chlorotoluene	5.4		0.08	1.0	"	5.00		109	18-167		
Dibromochloromethane	4.9		0.4	1.0	"	5.00		97.1	39-132		
1,2-Dibromo-3-chloropropane	4.7		0.2	1.0	"	5.00		93.3	36-141		
1,2-Dibromoethane (EDB)	5.6		0.4	1.0	"	5.00		111	36.6-152		
Dibromomethane	5.8		0.2	1.0	"	5.00		116	35.5-151		
1,2-Dichlorobenzene	5.3		0.08	1.0	"	5.00		106	36.7-148		
1,3-Dichlorobenzene	5.3		0.1	1.0	"	5.00		107	20.7-163		
1,4-Dichlorobenzene	5.0		0.09	1.0	"	5.00		99.3	19.4-160		
1,1-Dichloroethane	6.1		0.5	1.0	"	5.00		123	27.6-164		
1,2-Dichloroethane	5.9		0.5	1.0	"	5.00		119	29.9-158		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

LCS (EG72401-BS1) — Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	6.7		0.7	1.0	ug/L	5.00		135	21.4-178		
cis-1,2-Dichloroethene	5.7		0.5	1.0	"	5.00		113	32.7-154		
trans-1,2-Dichloroethene	6.4		0.7	1.0	"	5.00		129	15.9-168		
1,2-Dichloropropane	5.9		0.2	1.0	"	5.00		117	34.9-152		
1,3-Dichloropropane	5.6		0.4	1.0	"	5.00		113	37.8-153		
2,2-Dichloropropane	6.3		0.6	1.0	"	5.00		126	38.8-167		
1,1-Dichloropropene	6.8		0.1	1.0	"	5.00		136	29.7-177		
cis-1,3-Dichloropropene	5.4		0.4	1.0	"	5.00		109	53.9-143		
trans-1,3-Dichloropropene	5.4		0.4	1.0	"	5.00		108	47.8-139		
Ethylbenzene	5.5		0.1	1.0	"	5.00		111	18.2-187		
Hexachlorobutadiene	5.4		0.2	1.0	"	5.00		108	33.9-156		
2-Hexanone	8.4		1.0	2.0	"	10.0		84.1	40.2-138		
Vinyl chloride	7.0	J	0.4	2.0	"	5.00		141	14.9-223		
Isopropylbenzene	6.2		0.1	1.0	"	5.00		125	11.1-195		
Dichlorodifluoromethane	6.0		0.4	1.0	"	5.00		120	37.4-202		
p-Isopropyltoluene	5.7		0.1	1.0	"	5.00		114	20.6-172		
Methylene chloride	5.4		0.6	1.0	"	5.00		109	33.7-149		
4-Methyl-2-pentanone	10.6		0.8	2.0	"	10.0		106	41.1-146		
Naphthalene	5.4		0.05	1.0	"	5.00		107	29.3-160		
Trichlorofluoromethane	6.1		1.1	2.0	"	5.00		122	17.8-214		
n-Propylbenzene	5.4		0.08	1.0	"	5.00		107	22.1-163		
Styrene	5.3		0.1	1.0	"	5.00		105	17.3-163		
1,1,2,2-Tetrachloroethane	5.8		0.2	1.0	"	5.00		115	24.2-154		
1,1,1,2-Tetrachloroethane	5.6		0.1	1.0	"	5.00		112	28-176		
Tetrachloroethene	6.5		0.5	1.0	"	5.00		129	25.8-174		
Toluene	5.8		0.4	1.0	"	5.00		115	33.2-158		
Vinyl acetate	11.3		0.5	2.0	"	10.0		113	18.1-129.1		
1,2,3-Trichlorobenzene	5.5		0.1	1.0	"	5.00		109	38.9-153		
1,2,4-Trichlorobenzene	5.5		0.07	1.0	"	5.00		109	34.8-154		
1,1,2-Trichloroethane	5.7		0.4	1.0	"	5.00		114	35.9-150		
1,1,1-Trichloroethane	6.6		0.6	1.0	"	5.00		131	29.5-176		
Trichloroethene	6.3		0.1	1.0	"	5.00		127	37.7-163		

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

LCS (EG72401-BS1) — Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,3-Trichloropropane	5.8		0.2	1.0	ug/L	5.00		115	20.6-167		
1,3,5-Trimethylbenzene	6.0		0.1	1.0	"	5.00		121	12.3-192		
1,2,4-Trimethylbenzene	5.8		0.08	1.0	"	5.00		117	19.3-177		
m,p-Xylene	11.5		0.07	2.0	"	10.0		115	15.4-167		
o-Xylene	5.9		0.1	1.0	"	5.00		118	12.8-196		

LCS Dup (EG72401-BSD1) — Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.8*				*ug/L*	*5.00*		*96.7*	*78-114*		
Surrogate: Toluene-d8	*5.5*				*"*	*5.00*		*110*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*4.7*				*"*	*5.00*		*94.8*	*59.2-140*		
Acetone	22.0		3.0	5.0	"	25.0		87.8	29.4-146	17.6	30
Acrolein	20.1		2.5	5.0	"	25.0		80.3	20-137	16.4	30
Acrylonitrile	24.9		2.6	5.0	"	25.0		99.4	41.8-152	18.5	30
Benzene	5.2		0.07	1.0	"	5.00		103	39.4-159	8.68	30
Bromobenzene	4.6		0.1	1.0	"	5.00		92.2	10.1-182	15.2	30
Bromochloromethane	5.7		0.5	1.0	"	5.00		113	32-159	8.26	30
Bromodichloromethane	4.6		0.1	1.0	"	5.00		91.7	35.2-146	17.2	30
Bromoform	4.5		0.2	1.0	"	5.00		89.3	19.7-152	8.72	30
Bromomethane	5.4		0.4	1.0	"	5.00		108	8.32-179	0.0594	30
2-Butanone	27.7		1.0	5.0	"	25.0		111	21.2-184	9.65	30
n-Butylbenzene	5.2		0.2	1.0	"	5.00		104	29.6-162	3.32	30
sec-Butylbenzene	5.0		0.1	1.0	"	5.00		99.3	21.1-173	15.4	30
tert-Butylbenzene	5.0		0.1	1.0	"	5.00		101	13.2-193	19.1	30
Carbon tetrachloride	5.4		0.2	1.0	"	5.00		108	27.2-172	14.8	30
Chlorobenzene	5.9		0.07	1.0	"	5.00		118	8.18-192	13.5	30
Chloroethane	5.6		0.5	1.0	"	5.00		112	17.4-183	1.95	30
Chloroform	5.2		0.5	1.0	"	5.00		104	37.6-159	14.0	30
Chloromethane	5.5		0.6	1.0	"	5.00		111	13.4-184	0.603	30
2-Chlorotoluene	4.8		0.09	1.0	"	5.00		95.8	18.9-176	18.1	30
4-Chlorotoluene	4.7		0.08	1.0	"	5.00		93.9	18-167	14.7	30

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77 West Jackson Boulevard	Project Number: TO14	Reported:
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Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

LCS Dup (EG72401-BSD1) — Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dibromochloromethane	4.2		0.4	1.0	ug/L	5.00		83.4	39-132	15.2	30
1,2-Dibromo-3-chloropropane	4.7		0.2	1.0	"	5.00		93.8	36-141	0.582	30
1,2-Dibromoethane (EDB)	4.6		0.4	1.0	"	5.00		92.7	36.6-152	18.2	30
Dibromomethane	4.9		0.2	1.0	"	5.00		98.4	35.5-151	16.3	30
1,2-Dichlorobenzene	4.9		0.08	1.0	"	5.00		97.6	36.7-148	8.39	30
1,3-Dichlorobenzene	4.7		0.1	1.0	"	5.00		94.7	20.7-163	12.2	30
1,4-Dichlorobenzene	4.4		0.09	1.0	"	5.00		88.9	19.4-160	11.0	30
1,1-Dichloroethane	5.3		0.5	1.0	"	5.00		107	27.6-164	13.8	30
1,2-Dichloroethane	4.9		0.5	1.0	"	5.00		97.6	29.9-158	19.5	30
1,1-Dichloroethene	5.6		0.7	1.0	"	5.00		112	21.4-178	18.0	30
cis-1,2-Dichloroethene	4.9		0.5	1.0	"	5.00		98.1	32.7-154	14.4	30
trans-1,2-Dichloroethene	5.0		0.7	1.0	"	5.00		101	15.9-168	24.2	30
1,2-Dichloropropane	5.0		0.2	1.0	"	5.00		100	34.9-152	15.9	30
1,3-Dichloropropane	5.0		0.4	1.0	"	5.00		99.3	37.8-153	12.8	30
2,2-Dichloropropane	5.2		0.6	1.0	"	5.00		103	38.8-167	20.2	30
1,1-Dichloropropene	5.5		0.1	1.0	"	5.00		110	29.7-177	20.8	30
cis-1,3-Dichloropropene	4.6		0.4	1.0	"	5.00		93.0	53.9-143	15.8	30
trans-1,3-Dichloropropene	4.5		0.4	1.0	"	5.00		89.4	47.8-139	18.6	30
Ethylbenzene	5.0		0.1	1.0	"	5.00		99.3	18.2-187	10.7	30
Hexachlorobutadiene	4.9		0.2	1.0	"	5.00		97.2	33.9-156	10.4	30
2-Hexanone	7.4		1.0	2.0	"	10.0		74.1	40.2-138	12.6	30
Vinyl chloride	7.0	J	0.4	2.0	"	5.00		140	14.9-223	0.611	30
Isopropylbenzene	5.0		0.1	1.0	"	5.00		100	11.1-195	21.6	30
Dichlorodifluoromethane	5.8		0.4	1.0	"	5.00		115	37.4-202	4.29	30
p-Isopropyltoluene	5.0		0.1	1.0	"	5.00		101	20.6-172	12.6	30
Methylene chloride	4.6		0.6	1.0	"	5.00		92.6	33.7-149	16.1	30
4-Methyl-2-pentanone	9.5		0.8	2.0	"	10.0		95.2	41.1-146	10.7	30
Naphthalene	4.9		0.05	1.0	"	5.00		98.6	29.3-160	8.19	30
Trichlorofluoromethane	5.8		1.1	2.0	"	5.00		117	17.8-214	4.94	30
n-Propylbenzene	4.6		0.08	1.0	"	5.00		92.7	22.1-163	14.4	30
Styrene	4.4		0.1	1.0	"	5.00		87.2	17.3-163	18.8	30
1,1,2,2-Tetrachloroethane	4.9		0.2	1.0	"	5.00		98.9	24.2-154	15.3	30

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

LCS Dup (EG72401-BSD1) **Prepared: Jul-24-07 Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.0		0.1	1.0	ug/L	5.00		100	28-176	11.6	30
Tetrachloroethene	5.4		0.5	1.0	"	5.00		108	25.8-174	18.1	30
Toluene	4.9		0.4	1.0	"	5.00		97.0	33.2-158	17.3	30
Vinyl acetate	8.8		0.5	2.0	"	10.0		87.7	18.1-129.1	25.1	30
1,2,3-Trichlorobenzene	5.2		0.1	1.0	"	5.00		104	38.9-153	4.54	30
1,2,4-Trichlorobenzene	5.2		0.07	1.0	"	5.00		104	34.8-154	4.54	30
1,1,2-Trichloroethane	4.9		0.4	1.0	"	5.00		98.8	35.9-150	14.0	30
1,1,1-Trichloroethane	5.6		0.6	1.0	"	5.00		111	29.5-176	16.5	30
Trichloroethene	5.2		0.1	1.0	"	5.00		103	37.7-163	20.4	30
1,2,3-Trichloropropane	5.0		0.2	1.0	"	5.00		99.9	20.6-167	14.2	30
1,3,5-Trimethylbenzene	5.2		0.1	1.0	"	5.00		105	12.3-192	14.1	30
1,2,4-Trimethylbenzene	5.2		0.08	1.0	"	5.00		105	19.3-177	10.9	30
m,p-Xylene	9.9		0.07	2.0	"	10.0		98.9	15.4-167	15.2	30
o-Xylene	4.9		0.1	1.0	"	5.00		98.7	12.8-196	17.8	30

Matrix Spike (EG72401-MS1) **Source: E707002-08** **Prepared: Jul-24-07 Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.7*				*ug/L*	*5.00*		*93.7*	*25-122*		
Surrogate: Toluene-d8	*5.6*				"	*5.00*		*112*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*4.7*				"	*5.00*		*94.4*	*63-123*		
Acetone	21.2		3.0	5.0	"	25.0	3.6	70.4	137-200		
Acrolein	14.9		2.5	5.0	"	25.0	U	59.6	50-150		
Acrylonitrile	20.0		2.6	5.0	"	25.0	U	79.9	106-109		
Benzene	4.3		0.07	1.0	"	5.00	U	86.7	34-167		
Bromobenzene	3.7		0.1	1.0	"	5.00	U	73.2	44-167		
Bromochloromethane	4.3		0.5	1.0	"	5.00	U	85.8	37-175		
Bromodichloromethane	3.7		0.1	1.0	"	5.00	U	73.9	36-153		
Bromoform	3.1		0.2	1.0	"	5.00	U	61.2	17-157		
Bromomethane	3.5		0.4	1.0	"	5.00	U	70.3	50-150		
2-Butanone	19.6		1.0	5.0	"	25.0	U	78.5	50-150		
n-Butylbenzene	4.0		0.2	1.0	"	5.00	U	79.2	39-157		

John Walton, chemist

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

Matrix Spike (EG72401-MS1) Source: E707002-08 Prepared: Jul-24-07 Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
sec-Butylbenzene	3.9		0.1	1.0	ug/L	5.00	U	78.9	43-164		
tert-Butylbenzene	4.1		0.1	1.0	"	5.00	U	82.3	45-162		
Carbon tetrachloride	4.5		0.2	1.0	"	5.00	U	90.7	9-173		
Chlorobenzene	4.8		0.07	1.0	"	5.00	U	96.1	44-167		
Chloroethane	4.1		0.5	1.0	"	5.00	U	81.7	50-150		
Chloroform	4.3		0.5	1.0	"	5.00	U	87.0	46-157		
Chloromethane	4.0		0.6	1.0	"	5.00	U	79.9	70-76		
2-Chlorotoluene	3.8		0.09	1.0	"	5.00	U	75.3	35-173		
4-Chlorotoluene	3.6		0.08	1.0	"	5.00	U	72.6	43-164		
Dibromochloromethane	3.2		0.4	1.0	"	5.00	U	64.1	24-168		
1,2-Dibromo-3-chloropropane	3.5		0.2	1.0	"	5.00	U	69.3	11-188		
1,2-Dibromoethane (EDB)	3.6		0.4	1.0	"	5.00	U	72.9	73-107		
Dibromomethane	3.8		0.2	1.0	"	5.00	U	76.6	42-168		
1,2-Dichlorobenzene	3.8		0.08	1.0	"	5.00	U	76.4	47-163		
1,3-Dichlorobenzene	3.7		0.1	1.0	"	5.00	U	74.6	42-173		
1,4-Dichlorobenzene	3.4		0.09	1.0	"	5.00	U	68.4	41-170		
1,1-Dichloroethane	4.7		0.5	1.0	"	5.00	U	94.2	35-177		
1,2-Dichloroethane	4.0		0.5	1.0	"	5.00	U	80.8	20-188		
1,1-Dichloroethene	5.1		0.7	1.0	"	5.00	U	103	4-173		
cis-1,2-Dichloroethene	4.2		0.5	1.0	"	5.00	U	83.8	32-164		
trans-1,2-Dichloroethene	4.0		0.7	1.0	"	5.00	U	80.8	35-179		
1,2-Dichloropropane	4.1		0.2	1.0	"	5.00	U	82.2	44-156		
1,3-Dichloropropane	4.0		0.4	1.0	"	5.00	U	80.7	42-163		
2,2-Dichloropropane	4.3		0.6	1.0	"	5.00	U	85.5	12-158		
1,1-Dichloropropene	4.5		0.1	1.0	"	5.00	U	90.7	37-157		
cis-1,3-Dichloropropene	3.5		0.4	1.0	"	5.00	U	71.0	24-156		
trans-1,3-Dichloropropene	3.5		0.4	1.0	"	5.00	U	69.7	12-160		
Ethylbenzene	3.7		0.1	1.0	"	5.00	U	74.0	43-163		
Hexachlorobutadiene	4.0		0.2	1.0	"	5.00	U	80.1	21-166		
2-Hexanone	6.6		1.0	2.0	"	10.0	U	65.8	116-145		
Vinyl chloride	5.5		0.4	2.0	"	5.00	U	109	50-150		
Isopropylbenzene	4.1		0.1	1.0	"	5.00	U	82.9	44-163		

John Walton, chemist

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72401 - voa DW

Matrix Spike (EG72401-MS1) **Source: E707002-08** **Prepared: Jul-24-07 Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	4.3		0.4	1.0	ug/L	5.00	U	85.8	50-150		
p-Isopropyltoluene	3.8		0.1	1.0	"	5.00	U	76.7	46-164		
Methylene chloride	32.1		0.6	1.0	"	5.00	51.3	NR	44-174		
4-Methyl-2-pentanone	6.3		0.8	2.0	"	10.0	U	62.9	108-119		
Naphthalene	3.4		0.05	1.0	"	5.00	U	68.8	27-161		
Trichlorofluoromethane	4.2		1.1	2.0	"	5.00	U	83.5	50-150		
n-Propylbenzene	3.7		0.08	1.0	"	5.00	U	73.9	55-156		
Styrene	3.5		0.1	1.0	"	5.00	U	70.7	43-157		
1,1,2,2-Tetrachloroethane	3.8		0.2	1.0	"	5.00	U	75.3	20-215		
1,1,1,2-Tetrachloroethane	3.8		0.1	1.0	"	5.00	U	75.2	28-176		
Tetrachloroethene	4.5		0.5	1.0	"	5.00	U	89.2	45-165		
Toluene	4.3		0.4	1.0	"	5.00	U	85.5	51-151		
Vinyl acetate	7.7		0.5	2.0	"	10.0	U	76.7	50-150		
1,2,3-Trichlorobenzene	3.7		0.1	1.0	"	5.00	U	74.3	37-159		
1,2,4-Trichlorobenzene	3.7		0.07	1.0	"	5.00	U	74.3	36-154		
1,1,2-Trichloroethane	3.9		0.4	1.0	"	5.00	U	78.8	27-174		
1,1,1-Trichloroethane	4.8		0.6	1.0	"	5.00	U	95.2	18-180		
Trichloroethene	5.4		0.1	1.0	"	5.00	0.9	91.3	44-159		
1,2,3-Trichloropropane	3.8		0.2	1.0	"	5.00	U	76.8	37-181		
1,3,5-Trimethylbenzene	3.9		0.1	1.0	"	5.00	U	78.2	37-171		
1,2,4-Trimethylbenzene	3.6		0.08	1.0	"	5.00	U	72.1	39-171		
m,p-Xylene	8.0		0.07	2.0	"	10.0	U	80.4	45-163		
o-Xylene	3.9		0.1	1.0	"	5.00	U	78.7	44-163		

Batch EG72501 - voa DW

Blank (EG72501-BLK1) **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.9*				*ug/L*	*5.00*		*97.7*	*25-122*		
Surrogate: Toluene-d8	*5.7*				*"*	*5.00*		*113*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*5.2*				*"*	*5.00*		*103*	*63-123*		
Acetone	3.6	J	3.0	5.0	"						

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Blank (EG72501-BLK1) — **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acrolein	U		2.5	5.0	ug/L						
Acrylonitrile	U		2.6	5.0	"						
Benzene	U		0.07	1.0	"						
Bromobenzene	U		0.1	1.0	"						
Bromochloromethane	U		0.5	1.0	"						
Bromodichloromethane	U		0.1	1.0	"						
Bromoform	U		0.2	1.0	"						
Bromomethane	U		0.4	1.0	"						
2-Butanone	U		1.0	5.0	"						
n-Butylbenzene	0.3	J	0.2	1.0	"						
sec-Butylbenzene	0.2	J	0.1	1.0	"						
tert-Butylbenzene	U		0.1	1.0	"						
Carbon disulfide	U		0.6	1.0	"						
Carbon tetrachloride	U		0.2	1.0	"						
Chlorobenzene	U		0.07	1.0	"						
Chloroethane	U		0.5	1.0	"						
Chloroform	U		0.5	1.0	"						
Chloromethane	U		0.6	1.0	"						
2-Chlorotoluene	0.1	J	0.09	1.0	"						
4-Chlorotoluene	U		0.08	1.0	"						
Dibromochloromethane	U		0.4	1.0	"						
1,2-Dibromo-3-chloropropane	U		0.2	1.0	"						
1,2-Dibromoethane (EDB)	U		0.4	1.0	"						
Dibromomethane	U		0.2	1.0	"						
1,2-Dichlorobenzene	U		0.08	1.0	"						
1,3-Dichlorobenzene	0.2	J	0.1	1.0	"						
1,4-Dichlorobenzene	0.3	J	0.09	1.0	"						
1,1-Dichloroethane	U		0.5	1.0	"						
1,2-Dichloroethane	U		0.5	1.0	"						
1,1-Dichloroethene	U		0.7	1.0	"						
cis-1,2-Dichloroethene	U		0.5	1.0	"						
trans-1,2-Dichloroethene	U		0.7	1.0	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Blank (EG72501-BLK1) — **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	U		0.2	1.0	ug/L						
1,3-Dichloropropane	U		0.4	1.0	"						
2,2-Dichloropropane	U		0.6	1.0	"						
1,1-Dichloropropene	U		0.1	1.0	"						
cis-1,3-Dichloropropene	U		0.4	1.0	"						
trans-1,3-Dichloropropene	U		0.4	1.0	"						
Ethylbenzene	U		0.1	1.0	"						
Hexachlorobutadiene	0.2	J	0.2	1.0	"						
2-Hexanone	U		1.0	2.0	"						
Vinyl chloride	U		0.4	2.0	"						
Isopropylbenzene	U		0.1	1.0	"						
Dichlorodifluoromethane	U	J	0.4	1.0	"						
p-Isopropyltoluene	0.2	J	0.1	1.0	"						
Methylene chloride	U		0.6	1.0	"						
4-Methyl-2-pentanone	U		0.8	2.0	"						
Naphthalene	U		0.05	1.0	"						
Tetrahydrofuran	U	J	0.1	1.0	"						
Trichlorofluoromethane	U		1.1	2.0	"						
n-Propylbenzene	0.3	J	0.08	1.0	"						
Methyl tert-butyl ether	U		0.7	1.0	"						
Styrene	U		0.1	1.0	"						
1,1,2,2-Tetrachloroethane	U		0.2	1.0	"						
1,1,1,2-Tetrachloroethane	U		0.1	1.0	"						
Tetrachloroethene	U		0.5	1.0	"						
Vinyl acetate	U		0.5	2.0	"						
Toluene	U		0.4	1.0	"						
1,2,3-Trichlorobenzene	0.1	J	0.1	1.0	"						
1,2,4-Trichlorobenzene	0.1	J	0.07	1.0	"						
1,1,2-Trichloroethane	U		0.4	1.0	"						
1,1,1-Trichloroethane	U		0.6	1.0	"						
Trichloroethene	U		0.1	1.0	"						
1,2,3-Trichloropropane	U		0.2	1.0	"						

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

Blank (EG72501-BLK1) — **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	U		0.1	1.0	ug/L						
1,2,4-Trimethylbenzene	0.1	J	0.08	1.0	"						
m,p-Xylene	0.3	J	0.07	2.0	"						
o-Xylene	U		0.1	1.0	"						

LCS (EG72501-BS1) — **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*5.1*				*ug/L*	*5.00*		*101*	*78-114*		
Surrogate: Toluene-d8	*5.8*				*"*	*5.00*		*117*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*5.0*				*"*	*5.00*		*100*	*59.2-140*		
Acetone	28.7		3.0	5.0	"	25.0		115	29.4-146		
Acrolein	23.8		2.5	5.0	"	25.0		95.1	20-137		
Acrylonitrile	28.7		2.6	5.0	"	25.0		115	41.8-152		
Benzene	5.9		0.07	1.0	"	5.00		117	39.4-159		
Bromobenzene	5.1		0.1	1.0	"	5.00		101	10.1-182		
Bromochloromethane	5.5		0.5	1.0	"	5.00		110	32-159		
Bromodichloromethane	5.3		0.1	1.0	"	5.00		106	35.2-146		
Bromoform	4.8		0.2	1.0	"	5.00		96.5	19.7-152		
Bromomethane	5.3		0.4	1.0	"	5.00		106	8.32-179		
2-Butanone	35.6		1.0	5.0	"	25.0		142	21.2-184		
n-Butylbenzene	5.1		0.2	1.0	"	5.00		102	29.6-162		
sec-Butylbenzene	5.5		0.1	1.0	"	5.00		110	21.1-173		
tert-Butylbenzene	5.7		0.1	1.0	"	5.00		115	13.2-193		
Carbon tetrachloride	6.3		0.2	1.0	"	5.00		125	27.2-172		
Chlorobenzene	6.3		0.07	1.0	"	5.00		125	8.18-192		
Chloroethane	5.8		0.5	1.0	"	5.00		117	17.4-183		
Chloroform	5.8		0.5	1.0	"	5.00		117	37.6-159		
Chloromethane	5.6		0.6	1.0	"	5.00		112	13.4-184		
2-Chlorotoluene	5.5		0.09	1.0	"	5.00		109	18.9-176		
4-Chlorotoluene	4.8		0.08	1.0	"	5.00		95.8	18-167		
Dibromochloromethane	4.8		0.4	1.0	"	5.00		96.7	39-132		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

LCS (EG72501-BS1) — Prepared & Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	5.0		0.2	1.0	ug/L	5.00		101	36-141		
1,2-Dibromoethane (EDB)	5.5		0.4	1.0	"	5.00		110	36.6-152		
Dibromomethane	5.5		0.2	1.0	"	5.00		111	35.5-151		
1,2-Dichlorobenzene	5.0		0.08	1.0	"	5.00		99.2	36.7-148		
1,3-Dichlorobenzene	5.0		0.1	1.0	"	5.00		100	20.7-163		
1,4-Dichlorobenzene	4.7		0.09	1.0	"	5.00		93.9	19.4-160		
1,1-Dichloroethane	6.1		0.5	1.0	"	5.00		121	27.6-164		
1,2-Dichloroethane	5.5		0.5	1.0	"	5.00		109	29.9-158		
1,1-Dichloroethene	6.3		0.7	1.0	"	5.00		127	21.4-178		
cis-1,2-Dichloroethene	5.7		0.5	1.0	"	5.00		115	32.7-154		
trans-1,2-Dichloroethene	6.2		0.7	1.0	"	5.00		123	15.9-168		
1,2-Dichloropropane	5.5		0.2	1.0	"	5.00		110	34.9-152		
1,3-Dichloropropane	5.6		0.4	1.0	"	5.00		111	37.8-153		
2,2-Dichloropropane	6.1		0.6	1.0	"	5.00		123	38.8-167		
1,1-Dichloropropene	6.0		0.1	1.0	"	5.00		119	29.7-177		
cis-1,3-Dichloropropene	5.3		0.4	1.0	"	5.00		106	53.9-143		
trans-1,3-Dichloropropene	5.2		0.4	1.0	"	5.00		104	47.8-139		
Ethylbenzene	5.6		0.1	1.0	"	5.00		112	18.2-187		
Hexachlorobutadiene	5.1		0.2	1.0	"	5.00		103	33.9-156		
2-Hexanone	8.8		1.0	2.0	"	10.0		87.5	40.2-138		
Vinyl chloride	6.8		0.4	2.0	"	5.00		137	14.9-223		
Isopropylbenzene	5.9		0.1	1.0	"	5.00		117	11.1-195		
Dichlorodifluoromethane	5.9	J	0.4	1.0	"	5.00		117	37.4-202		
p-Isopropyltoluene	5.4		0.1	1.0	"	5.00		107	20.6-172		
Methylene chloride	5.3		0.6	1.0	"	5.00		107	33.7-149		
4-Methyl-2-pentanone	10.8		0.8	2.0	"	10.0		108	41.1-146		
Naphthalene	4.9		0.05	1.0	"	5.00		98.8	29.3-160		
Tetrahydrofuran	5.7	J	0.1	1.0	"				0-200		
Trichlorofluoromethane	6.1		1.1	2.0	"	5.00		122	17.8-214		
Methyl tert-butyl ether	4.9		0.7	1.0	"				0-200		
n-Propylbenzene	4.9		0.08	1.0	"	5.00		98.7	22.1-163		
Styrene	4.6		0.1	1.0	"	5.00		92.8	17.3-163		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

LCS (EG72501-BS1) — Prepared & Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	5.4		0.2	1.0	ug/L	5.00		108	24.2-154		
1,1,1,2-Tetrachloroethane	5.3		0.1	1.0	"	5.00		106	28-176		
Tetrachloroethene	6.3		0.5	1.0	"	5.00		125	25.8-174		
Toluene	5.6		0.4	1.0	"	5.00		112	33.2-158		
Vinyl acetate	13.3		0.5	2.0	"	10.0		133	18.1-129.1		
1,2,3-Trichlorobenzene	5.2		0.1	1.0	"	5.00		103	38.9-153		
1,2,4-Trichlorobenzene	5.2		0.07	1.0	"	5.00		103	34.8-154		
1,1,2-Trichloroethane	5.6		0.4	1.0	"	5.00		111	35.9-150		
1,1,1-Trichloroethane	6.4		0.6	1.0	"	5.00		128	29.5-176		
Trichloroethene	6.0		0.1	1.0	"	5.00		120	37.7-163		
1,2,3-Trichloropropane	5.5		0.2	1.0	"	5.00		109	20.6-167		
1,3,5-Trimethylbenzene	5.8		0.1	1.0	"	5.00		115	12.3-192		
1,2,4-Trimethylbenzene	5.5		0.08	1.0	"	5.00		109	19.3-177		
m,p-Xylene	10.7		0.07	2.0	"	10.0		107	15.4-167		
o-Xylene	5.5		0.1	1.0	"	5.00		110	12.8-196		

LCS Dup (EG72501-BSD1) — Prepared & Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.8*				*ug/L*	*5.00*		*96.2*	*78-114*		
Surrogate: Toluene-d8	*5.6*				*"*	*5.00*		*113*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*5.0*				*"*	*5.00*		*101*	*59.2-140*		
Acetone	29.2		3.0	5.0	"	25.0		117	29.4-146	1.54	30
Acrolein	22.3		2.5	5.0	"	25.0		89.3	20-137	6.33	30
Acrylonitrile	30.8		2.6	5.0	"	25.0		123	41.8-152	7.11	30
Benzene	5.3		0.07	1.0	"	5.00		106	39.4-159	9.65	30
Bromobenzene	5.2		0.1	1.0	"	5.00		105	10.1-182	3.65	30
Bromochloromethane	5.4		0.5	1.0	"	5.00		109	32-159	1.36	30
Bromodichloromethane	5.0		0.1	1.0	"	5.00		101	35.2-146	4.59	30
Bromoform	4.9		0.2	1.0	"	5.00		97.7	19.7-152	1.18	30
Bromomethane	5.2		0.4	1.0	"	5.00		103	8.32-179	2.75	30
2-Butanone	35.3		1.0	5.0	"	25.0		141	21.2-184	0.876	30

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

LCS Dup (EG72501-BSD1) — **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
n-Butylbenzene	5.0		0.2	1.0	ug/L	5.00		99.3	29.6-162	2.29	30
sec-Butylbenzene	5.5		0.1	1.0	"	5.00		110	21.1-173	0.465	30
tert-Butylbenzene	5.6		0.1	1.0	"	5.00		112	13.2-193	2.49	30
Carbon tetrachloride	5.9		0.2	1.0	"	5.00		118	27.2-172	6.05	30
Chlorobenzene	6.5		0.07	1.0	"	5.00		129	8.18-192	3.03	30
Chloroethane	5.6		0.5	1.0	"	5.00		111	17.4-183	4.89	30
Chloroform	5.5		0.5	1.0	"	5.00		110	37.6-159	5.59	30
Chloromethane	5.6		0.6	1.0	"	5.00		111	13.4-184	0.222	30
2-Chlorotoluene	5.4		0.09	1.0	"	5.00		109	18.9-176	0.800	30
4-Chlorotoluene	4.9		0.08	1.0	"	5.00		97.4	18-167	1.62	30
Dibromochloromethane	4.8		0.4	1.0	"	5.00		97.0	39-132	0.314	30
1,2-Dibromo-3-chloropropane	5.0		0.2	1.0	"	5.00		100	36-141	0.581	30
1,2-Dibromoethane (EDB)	5.4		0.4	1.0	"	5.00		107	36.6-152	2.35	30
Dibromomethane	5.6		0.2	1.0	"	5.00		111	35.5-151	0.554	30
1,2-Dichlorobenzene	5.0		0.08	1.0	"	5.00		100	36.7-148	0.844	30
1,3-Dichlorobenzene	5.2		0.1	1.0	"	5.00		103	20.7-163	2.92	30
1,4-Dichlorobenzene	4.9		0.09	1.0	"	5.00		97.5	19.4-160	3.82	30
1,1-Dichloroethane	5.8		0.5	1.0	"	5.00		115	27.6-164	5.13	30
1,2-Dichloroethane	5.5		0.5	1.0	"	5.00		110	29.9-158	0.722	30
1,1-Dichloroethene	6.2		0.7	1.0	"	5.00		124	21.4-178	2.32	30
cis-1,2-Dichloroethene	5.5		0.5	1.0	"	5.00		110	32.7-154	3.87	30
trans-1,2-Dichloroethene	5.4		0.7	1.0	"	5.00		107	15.9-168	13.9	30
1,2-Dichloropropane	5.4		0.2	1.0	"	5.00		108	34.9-152	1.94	30
1,3-Dichloropropane	5.6		0.4	1.0	"	5.00		111	37.8-153	0.0359	30
2,2-Dichloropropane	5.7		0.6	1.0	"	5.00		115	38.8-167	6.88	30
1,1-Dichloropropene	5.8		0.1	1.0	"	5.00		115	29.7-177	3.64	30
cis-1,3-Dichloropropene	5.3		0.4	1.0	"	5.00		105	53.9-143	0.0606	30
trans-1,3-Dichloropropene	5.2		0.4	1.0	"	5.00		103	47.8-139	0.533	30
Ethylbenzene	5.7		0.1	1.0	"	5.00		113	18.2-187	1.36	30
Hexachlorobutadiene	4.9		0.2	1.0	"	5.00		98.9	33.9-156	3.82	30
2-Hexanone	10.4		1.0	2.0	"	10.0		104	40.2-138	17.2	30
Vinyl chloride	6.0		0.4	2.0	"	5.00		120	14.9-223	13.4	30

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

LCS Dup (EG72501-BSD1) **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Isopropylbenzene	5.8		0.1	1.0	ug/L	5.00		115	11.1-195	1.84	30
Dichlorodifluoromethane	5.6	J	0.4	1.0	"	5.00		113	37.4-202	3.92	30
p-Isopropyltoluene	5.3		0.1	1.0	"	5.00		107	20.6-172	0.0748	30
Methylene chloride	5.3		0.6	1.0	"	5.00		106	33.7-149	0.685	30
4-Methyl-2-pentanone	10.9		0.8	2.0	"	10.0		109	41.1-146	1.23	30
Naphthalene	5.1		0.05	1.0	"	5.00		103	29.3-160	3.93	30
Tetrahydrofuran	3.8	J	0.1	1.0	"				0-200		200
Trichlorofluoromethane	5.6		1.1	2.0	"	5.00		112	17.8-214	8.70	30
Methyl tert-butyl ether	5.3		0.7	1.0	"				0-200		200
n-Propylbenzene	4.9		0.08	1.0	"	5.00		99.0	22.1-163	0.243	30
Styrene	4.8		0.1	1.0	"	5.00		96.0	17.3-163	3.33	30
1,1,2,2-Tetrachloroethane	5.6		0.2	1.0	"	5.00		112	24.2-154	4.01	30
1,1,1,2-Tetrachloroethane	5.1		0.1	1.0	"	5.00		102	28-176	3.55	30
Tetrachloroethene	5.9		0.5	1.0	"	5.00		117	25.8-174	6.92	30
Vinyl acetate	13.8		0.5	2.0	"	10.0		138	18.1-129.1	3.66	30
Toluene	5.4		0.4	1.0	"	5.00		108	33.2-158	3.42	30
1,2,3-Trichlorobenzene	5.2		0.1	1.0	"	5.00		103	38.9-153	0.225	30
1,2,4-Trichlorobenzene	5.2		0.07	1.0	"	5.00		103	34.8-154	0.225	30
1,1,2-Trichloroethane	5.4		0.4	1.0	"	5.00		108	35.9-150	3.43	30
1,1,1-Trichloroethane	5.9		0.6	1.0	"	5.00		118	29.5-176	7.82	30
Trichloroethene	5.6		0.1	1.0	"	5.00		112	37.7-163	6.75	30
1,2,3-Trichloropropane	5.5		0.2	1.0	"	5.00		111	20.6-167	1.14	30
1,3,5-Trimethylbenzene	5.5		0.1	1.0	"	5.00		111	12.3-192	4.13	30
1,2,4-Trimethylbenzene	5.5		0.08	1.0	"	5.00		109	19.3-177	0.154	30
m,p-Xylene	10.7		0.07	2.0	"	10.0		107	15.4-167	0.378	30
o-Xylene	5.5		0.1	1.0	"	5.00		110	12.8-196	0.233	30

Matrix Spike (EG72501-MS1) **Source: E707002-08RE1** **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.7*				*ug/L*	*5.00*		*94.8*	*25-122*		
Surrogate: Toluene-d8	*5.6*				*"*	*5.00*		*111*	*25-129*		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Matrix Spike (EG72501-MS1) **Source: E707002-08RE1** **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 4-Bromofluorobenzene	*4.8*				*ug/L*	*5.00*		*96.3*	*63-123*		
Acetone	12.3		3.0	5.0	"	25.0	4.5	31.1	137-200		
Acrolein	10.4		2.5	5.0	"	25.0	U	41.7	50-150		
Acrylonitrile	9.2		2.6	5.0	"	25.0	U	37.0	106-109		
Benzene	1.7		0.07	1.0	"	5.00	U	33.4	34-167		
Bromobenzene	1.4		0.1	1.0	"	5.00	U	27.8	44-167		
Bromochloromethane	1.9		0.5	1.0	"	5.00	U	37.3	37-175		
Bromodichloromethane	1.5		0.1	1.0	"	5.00	U	29.6	36-153		
Bromoform	1.2		0.2	1.0	"	5.00	U	23.3	17-157		
Bromomethane	1.4		0.4	1.0	"	5.00	U	27.8	50-150		
2-Butanone	9.8		1.0	5.0	"	25.0	U	39.3	50-150		
n-Butylbenzene	1.4		0.2	1.0	"	5.00	U	27.7	39-157		
sec-Butylbenzene	1.4		0.1	1.0	"	5.00	U	28.7	43-164		
tert-Butylbenzene	1.3		0.1	1.0	"	5.00	U	26.2	45-162		
Carbon disulfide	2.2		0.6	1.0	"	5.00	U	43.6	107-117		
Carbon tetrachloride	1.7		0.2	1.0	"	5.00	U	34.2	9-173		
Chlorobenzene	1.8		0.07	1.0	"	5.00	U	35.6	44-167		
Chloroethane	1.8		0.5	1.0	"	5.00	U	35.5	50-150		
Chloroform	1.9		0.5	1.0	"	5.00	U	37.6	46-157		
Chloromethane	1.9		0.6	1.0	"	5.00	U	37.2	70-76		
2-Chlorotoluene	1.3		0.09	1.0	"	5.00	U	25.1	35-173		
4-Chlorotoluene	1.3		0.08	1.0	"	5.00	U	26.6	43-164		
Dibromochloromethane	1.3		0.4	1.0	"	5.00	U	25.3	24-168		
1,2-Dibromo-3-chloropropane	1.3		0.2	1.0	"	5.00	U	26.9	11-188		
1,2-Dibromoethane (EDB)	1.4		0.4	1.0	"	5.00	U	27.8	73-107		
Dibromomethane	1.9		0.2	1.0	"	5.00	U	38.9	42-168		
1,2-Dichlorobenzene	1.4		0.08	1.0	"	5.00	U	28.5	47-163		
1,3-Dichlorobenzene	1.6		0.1	1.0	"	5.00	U	31.2	42-173		
1,4-Dichlorobenzene	1.5		0.09	1.0	"	5.00	U	29.5	41-170		
1,1-Dichloroethane	2.3		0.5	1.0	"	5.00	U	46.8	35-177		
1,2-Dichloroethane	1.8		0.5	1.0	"	5.00	U	37.0	20-188		
1,1-Dichloroethene	2.0		0.7	1.0	"	5.00	U	39.8	4-173		

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch EG72501 - voa DW

Matrix Spike (EG72501-MS1) Source: E707002-08RE1 Prepared & Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	2.1		0.5	1.0	ug/L	5.00	U	42.9	32-164		
trans-1,2-Dichloroethene	2.1		0.7	1.0	"	5.00	U	41.9	35-179		
1,2-Dichloropropane	1.7		0.2	1.0	"	5.00	U	33.4	44-156		
1,3-Dichloropropane	1.7		0.4	1.0	"	5.00	U	33.5	42-163		
2,2-Dichloropropane	1.7		0.6	1.0	"	5.00	U	33.0	12-158		
1,1-Dichloropropene	1.7		0.1	1.0	"	5.00	U	33.5	37-157		
cis-1,3-Dichloropropene	1.4		0.4	1.0	"	5.00	U	27.7	24-156		
trans-1,3-Dichloropropene	1.3		0.4	1.0	"	5.00	U	25.2	12-160		
Ethylbenzene	1.3		0.1	1.0	"	5.00	U	25.8	43-163		
Hexachlorobutadiene	1.3		0.2	1.0	"	5.00	U	27.0	21-166		
2-Hexanone	2.1		1.0	2.0	"	10.0	U	20.8	116-145		
Vinyl chloride	2.5		0.4	2.0	"	5.00	U	49.4	50-150		
Isopropylbenzene	1.3		0.1	1.0	"	5.00	U	25.3	44-163		
Dichlorodifluoromethane	1.8	J	0.4	1.0	"	5.00	U	36.3	50-150		
p-Isopropyltoluene	1.3		0.1	1.0	"	5.00	U	25.8	46-164		
Methylene chloride	43.3		0.6	1.0	"	5.00	51.3	NR	44-174		
4-Methyl-2-pentanone	2.5		0.8	2.0	"	10.0	U	25.2	108-119		
Naphthalene	1.1		0.05	1.0	"	5.00	U	22.1	27-161		
Tetrahydrofuran	2.5	J	0.1	1.0	"		U		0-200		
Trichlorofluoromethane	1.7	J	1.1	2.0	"	5.00	U	33.8	50-150		
Methyl tert-butyl ether	3.0		0.7	1.0	"		U		0-200		
n-Propylbenzene	1.3		0.08	1.0	"	5.00	U	26.0	55-156		
Styrene	1.2		0.1	1.0	"	5.00	U	24.6	43-157		
1,1,2,2-Tetrachloroethane	1.6		0.2	1.0	"	5.00	U	31.4	20-215		
1,1,1,2-Tetrachloroethane	1.4		0.1	1.0	"	5.00	U	27.7	28-176		
Tetrachloroethene	1.7		0.5	1.0	"	5.00	U	34.3	45-165		
Vinyl acetate	3.7	K	0.5	2.0	"	10.0	U	37.5	50-150		
Toluene	1.5		0.4	1.0	"	5.00	U	30.2	51-151		
1,2,3-Trichlorobenzene	1.2		0.1	1.0	"	5.00	U	24.5	37-159		
1,2,4-Trichlorobenzene	1.2		0.07	1.0	"	5.00	U	24.5	36-154		
1,1,2-Trichloroethane	1.6		0.4	1.0	"	5.00	U	32.6	27-174		
1,1,1-Trichloroethane	1.9		0.6	1.0	"	5.00	U	37.7	18-180		

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Matrix Spike (EG72501-MS1) Source: E707002-08RE1 **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Trichloroethene	2.3		0.1	1.0	ug/L	5.00	0.9	28.8	44-159		
1,2,3-Trichloropropane	1.5		0.2	1.0	"	5.00	U	30.6	37-181		
1,3,5-Trimethylbenzene	1.3		0.1	1.0	"	5.00	U	25.0	37-171		
1,2,4-Trimethylbenzene	1.4		0.08	1.0	"	5.00	U	27.4	39-171		
m,p-Xylene	2.5		0.07	2.0	"	10.0	U	25.4	45-163		
o-Xylene	1.2		0.1	1.0	"	5.00	U	24.8	44-163		

Matrix Spike Dup (EG72501-MSD1) Source: E707002-08RE1 **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*4.7*				*ug/L*	*5.00*		*93.4*	*25-122*		
Surrogate: Toluene-d8	*5.3*				*"*	*5.00*		*106*	*25-129*		
Surrogate: 4-Bromofluorobenzene	*5.1*				*"*	*5.00*		*101*	*63-123*		
Acetone	10.7		3.0	5.0	"	25.0	4.5	24.5	137-200	23.9	30
Acrolein	7.7		2.5	5.0	"	25.0	U	30.8	50-150	30.2	30
Acrylonitrile	8.4		2.6	5.0	"	25.0	U	33.4	106-109	10.1	30
Benzene	1.2		0.07	1.0	"	5.00	U	24.1	34-167	32.6	30
Bromobenzene	1.1		0.1	1.0	"	5.00	U	22.7	44-167	20.5	30
Bromochloromethane	1.5		0.5	1.0	"	5.00	U	29.8	37-175	22.3	30
Bromodichloromethane	1.1		0.1	1.0	"	5.00	U	22.0	36-153	29.3	30
Bromoform	0.8	J	0.2	1.0	"	5.00	U	16.5	17-157	34.5	30
Bromomethane	1.0	J	0.4	1.0	"	5.00	U	19.3	50-150	36.3	30
2-Butanone	7.3		1.0	5.0	"	25.0	U	29.1	50-150	29.9	30
n-Butylbenzene	1.0	J	0.2	1.0	"	5.00	U	20.0	39-157	32.6	30
sec-Butylbenzene	1.1		0.1	1.0	"	5.00	U	22.4	43-164	24.6	30
tert-Butylbenzene	0.9	J	0.1	1.0	"	5.00	U	18.7	45-162	33.4	30
Carbon tetrachloride	1.1		0.2	1.0	"	5.00	U	22.4	9-173	41.5	30
Chlorobenzene	1.2		0.07	1.0	"	5.00	U	24.0	44-167	38.8	30
Chloroethane	1.2		0.5	1.0	"	5.00	U	24.2	50-150	37.7	30
Chloroform	1.2		0.5	1.0	"	5.00	U	24.5	46-157	42.1	30
Chloromethane	1.2		0.6	1.0	"	5.00	U	25.0	70-76	39.4	30
2-Chlorotoluene	0.9	J	0.09	1.0	"	5.00	U	18.8	35-173	28.9	30

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Matrix Spike Dup (EG72501-MSD1) Source: E707002-08RE1 Prepared & Analyzed: Jul-25-07

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
4-Chlorotoluene	1.1		0.08	1.0	ug/L	5.00	U	21.1	43-164	23.0	30
Dibromochloromethane	0.9	J	0.4	1.0	"	5.00	U	17.9	24-168	33.9	30
1,2-Dibromo-3-chloropropane	0.8	J	0.2	1.0	"	5.00	U	15.4	11-188	54.2	30
1,2-Dibromoethane (EDB)	1.1		0.4	1.0	"	5.00	U	22.2	73-107	22.3	30
Dibromomethane	1.3		0.2	1.0	"	5.00	U	25.9	42-168	40.0	30
1,2-Dichlorobenzene	1.1		0.08	1.0	"	5.00	U	21.3	47-163	28.9	30
1,3-Dichlorobenzene	1.2		0.1	1.0	"	5.00	U	23.9	42-173	26.5	30
1,4-Dichlorobenzene	1.2		0.09	1.0	"	5.00	U	23.5	41-170	22.7	30
1,1-Dichloroethane	1.7		0.5	1.0	"	5.00	U	33.8	35-177	32.3	30
1,2-Dichloroethane	1.5		0.5	1.0	"	5.00	U	30.6	20-188	18.7	30
1,1-Dichloroethene	1.3		0.7	1.0	"	5.00	U	27.0	4-173	38.3	30
cis-1,2-Dichloroethene	1.4		0.5	1.0	"	5.00	U	28.2	32-164	41.4	30
trans-1,2-Dichloroethene	1.3		0.7	1.0	"	5.00	U	25.6	35-179	48.2	30
1,2-Dichloropropane	1.2		0.2	1.0	"	5.00	U	23.7	44-156	34.0	30
1,3-Dichloropropane	1.3		0.4	1.0	"	5.00	U	26.9	42-163	21.7	30
2,2-Dichloropropane	1.1		0.6	1.0	"	5.00	U	22.1	12-158	39.7	30
1,1-Dichloropropene	1.0	J	0.1	1.0	"	5.00	U	19.9	37-157	51.1	30
cis-1,3-Dichloropropene	0.8	J	0.4	1.0	"	5.00	U	16.8	24-156	48.6	30
trans-1,3-Dichloropropene	1.0	J	0.4	1.0	"	5.00	U	19.0	12-160	28.2	30
Ethylbenzene	0.8	J	0.1	1.0	"	5.00	U	17.0	43-163	41.6	30
Hexachlorobutadiene	1.0	J	0.2	1.0	"	5.00	U	19.4	21-166	32.9	30
2-Hexanone	1.6	J	1.0	2.0	"	10.0	U	16.4	116-145	23.4	30
Vinyl chloride	1.6	J	0.4	2.0	"	5.00	U	31.3	50-150	44.8	30
Isopropylbenzene	1.0	J	0.1	1.0	"	5.00	U	19.1	44-163	27.9	30
Dichlorodifluoromethane	1.2	J	0.4	1.0	"	5.00	U	23.7	50-150	41.7	30
p-Isopropyltoluene	1.0		0.1	1.0	"	5.00	U	20.1	46-164	25.1	30
Methylene chloride	38.9		0.6	1.0	"	5.00	51.3	NR	44-174	NR	30
4-Methyl-2-pentanone	1.8	J	0.8	2.0	"	10.0	U	17.9	108-119	34.0	30
Naphthalene	0.7	J	0.05	1.0	"	5.00	U	13.3	27-161	49.6	30
Tetrahydrofuran	1.6	J	0.1	1.0	"		U		0-200		200
Trichlorofluoromethane	U		1.1	2.0	"	5.00	U		50-150		30
Methyl tert-butyl ether	2.4		0.7	1.0	"		U		0-200		200

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Volatiles by GC/MS - Quality Control
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Batch EG72501 - voa DW

Matrix Spike Dup (EG72501-MSD1) Source: E707002-08RE1 **Prepared & Analyzed: Jul-25-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
n-Propylbenzene	1.1		0.08	1.0	ug/L	5.00	U	22.0	55-156	16.6	30
Styrene	1.0	J	0.1	1.0	"	5.00	U	19.1	43-157	24.9	30
1,1,2,2-Tetrachloroethane	1.2		0.2	1.0	"	5.00	U	24.3	20-215	25.5	30
1,1,1,2-Tetrachloroethane	1.0	J	0.1	1.0	"	5.00	U	19.2	28-176	36.6	30
Tetrachloroethene	1.4		0.5	1.0	"	5.00	U	27.2	45-165	23.1	30
Vinyl acetate	2.6	K	0.5	2.0	"	10.0	U	26.3	50-150	34.9	30
Toluene	1.1		0.4	1.0	"	5.00	U	21.2	51-151	35.1	30
1,2,3-Trichlorobenzene	0.8	J	0.1	1.0	"	5.00	U	16.7	37-159	38.0	30
1,2,4-Trichlorobenzene	0.8	J	0.07	1.0	"	5.00	U	16.7	36-154	38.0	30
1,1,2-Trichloroethane	1.2		0.4	1.0	"	5.00	U	23.7	27-174	31.5	30
1,1,1-Trichloroethane	1.2		0.6	1.0	"	5.00	U	24.7	18-180	41.8	30
Trichloroethene	2.0		0.1	1.0	"	5.00	0.9	21.5	44-159	29.4	30
1,2,3-Trichloropropane	1.2		0.2	1.0	"	5.00	U	24.9	37-181	20.5	30
1,3,5-Trimethylbenzene	0.8	J	0.1	1.0	"	5.00	U	16.7	37-171	40.2	30
1,2,4-Trimethylbenzene	0.9	J	0.08	1.0	"	5.00	U	17.9	39-171	41.8	30
m,p-Xylene	1.9	J	0.07	2.0	"	10.0	U	18.7	45-163	30.8	30
o-Xylene	0.9	J	0.1	1.0	"	5.00	U	17.7	44-163	33.5	30

Batch EG72601 - voa DW

Blank (EG72601-BLK1) **Prepared & Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.864*				*ug/L*	*1.00*		*86.4*	*60-140*		
Surrogate: Toluene-d8	*0.910*				*"*	*1.00*		*91.0*	*60-140*		
Surrogate: 4-Bromofluorobenzene	*1.30*				*"*	*1.00*		*130*	*60-140*		
Vinyl chloride	U		0.07	0.20	"						

LCS (EG72601-BS1) **Prepared & Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.937*				*ug/L*	*1.00*		*93.7*	*78-114*		

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

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Batch EG72601 - voa DW

LCS (EG72601-BS1) — **Prepared & Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Toluene-d8	*0.979*				*ug/L*	*1.00*		*97.9*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*1.09*				*"*	*1.00*		*109*	*79-109*		
Vinyl chloride	**0.19**	J	0.07	0.20	"	0.200		92.8	0-200		

LCS Dup (EG72601-BSD1) — **Prepared & Analyzed: Jul-26-07**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.922*				*ug/L*	*1.00*		*92.2*	*78-114*		
Surrogate: Toluene-d8	*0.997*				*"*	*1.00*		*99.7*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*1.13*				*"*	*1.00*		*113*	*79-109*		
Vinyl chloride	**0.16**	J	0.07	0.20	"	0.200		79.0	0-200	16.1	200

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Chicago IL, 60604	Project Manager: Warren Layne	Aug-08-07 14:45

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

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Method: 335. 4 NS CRL SOP AIG025
Site: Muskego Sanitary Landfill
Date: July 25, 2007
Prepared by: Lora Buco

TDF: R5-01-057
TechLaw Job #: 03037.1.01.02.01.05J5.000.057
Task Order #: R5-0-01
Data Sets: E707001, E707002

NARRATIVE

Fourteen (14) water samples from the Muskego Sanitary Landfill site were collected between July 17-19, 2007 and were received at CRL between July 18-19, 2007. The samples were submitted to ESAT for analysis of total cyanide. All samples were received properly preserved except for sample E707002-04 which had a pH of 10. Due to the pH excursion, the cyanide result for sample E707002-04 is considered estimated and flagged "J" in LIMS. The sample point identifications are on the first page of the LIMS report following this narrative. Raw data and QC forms are filed in the folder for E707001.

Prior to distillation, all samples for cyanide analysis were screened for residual chlorine and sulfide interferences with negative results. Sulfamic acid was added to all samples and associated QC samples prior to distillation to eliminate potential nitrate and nitrite interferences

Samples were distilled for total cyanide on July 23, 2007 (LIMS Batch EG72004) using the Lachat Micro Distillation method according to CRL SOP AIG025 (Rev 5.1, May 2006). Samples were then analyzed on the Lachat QC8000 on July 24, 2007. MS/MSD is included with the distillation batch to verify the presence or absence of interference in the samples. Because reported QC values are less than 5 times the MDL, duplicate difference criteria were used for control purposes. All matrix duplicates are flagged "<5X" in LIMS and are acceptable.

Samples E707001-03 and E707001-04 were identified as a field duplicate pair. They show good correlation. Determinations of correlation were made using laboratory duplicate criteria. Sample E707002-05 was identified as an equipment blank and showed no contamination.

The QC report which include analytical and matrix QC is provided as an Excel spreadsheet. All results not previously discussed are acceptable. It has been observed that, due to differences in the significant figures used for calculation, RPD values and some matrix spike recoveries calculated by LIMS are not correct. The correct values are included in the Excel spreadsheets. Analytical/matrix QC summary report is provided in the data package.

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77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-27-07 10:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Near W208S8861 Hillendale A (ML32 E)	E707001-01	Water	Jul-17-07 16:15	Jul-18-07 15:54
BNear W208S8861 Hillendale B (ML33 W)	E707001-02	Water	Jul-17-07 15:50	Jul-18-07 15:54
S93W19979 Henneberry (ML19)	E707001-03	Water	Jul-17-07 18:02	Jul-18-07 15:54
S93W19979 Henneberry dup (ML20)	E707001-04	Water	Jul-17-07 18:05	Jul-18-07 15:54
W209S8543 Hillendale PW22 (ML132)	E707001-05	Water	Jul-17-07 17:05	Jul-18-07 15:54
W207S8861 Hillendale PW22 (ML242)	E707001-06	Water	Jul-17-07 14:00	Jul-18-07 15:54
W207S9298 Hillendale (ML9)	E707002-01	Water	Jul-18-07 11:25	Jul-19-07 13:10
S93W21183 Henneberry (ML22)	E707002-02	Water	Jul-18-07 14:30	Jul-19-07 13:10
W216S9202 Crowbar (ML25)	E707002-03	Water	Jul-18-07 10:00	Jul-19-07 13:10
Behind Stagecoach Inn (ML38)	E707002-04	Water	Jul-18-07 15:26	Jul-19-07 13:10
EB 2 Equipment Blank	E707002-05	Water	Jul-18-07 14:05	Jul-19-07 13:10
W208S8285 Hillendale (ML11)	E707002-07	Water	Jul-19-07 08:40	Jul-19-07 13:10
S87W22355 Janesville (ML15)	E707002-08	Water	Jul-19-07 10:30	Jul-19-07 13:10
W207S8686 Hillendale (ML34)	E707002-09	Water	Jul-19-07 09:30	Jul-19-07 13:10

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Report Name: E707002,E707001 FINAL Jul 27 07 1021

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77 West Jackson Boulevard	Project Number: TO14	**Reported:**
Chicago IL, 60604	Project Manager: Warren Layne	Jul-27-07 10:21

Automated Colorimetric Analyses

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Near W208S8861 Hillendale A (ML32 E) (E707001-01) Water Sampled: Jul-17-07 16:15 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

BNear W208S8861 Hillendale B (ML33 W) (E707001-02) Water Sampled: Jul-17-07 15:50 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

S93W19979 Henneberry (ML19) (E707001-03) Water Sampled: Jul-17-07 18:02 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

S93W19979 Henneberry dup (ML20) (E707001-04) Water Sampled: Jul-17-07 18:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W209S8543 Hillendale PW22 (ML132) (E707001-05) Water Sampled: Jul-17-07 17:05 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W207S8861 Hillendale PW22 (ML242) (E707001-06) Water Sampled: Jul-17-07 14:00 Received: Jul-18-07 15:54

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W207S9298 Hillendale (ML9) (E707002-01) Water Sampled: Jul-18-07 11:25 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

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7/27/07
Lora Buco, Chemist

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Chicago, IL 60602
(312) 345-8990
(312) 345-8979 (Fax)
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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-27-07 10:21

Automated Colorimetric Analyses

TechLaw - ESAT Contract

S93W21183 Henneberry (ML22) (E707002-02) Water Sampled: Jul-18-07 14:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W216S9202 Crowbar (ML25) (E707002-03) Water Sampled: Jul-18-07 10:00 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

Behind Stagecoach Inn (ML38) (E707002-04) Water Sampled: Jul-18-07 15:26 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U	J	2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

EB 2 Equipment Blank (E707002-05) Water Sampled: Jul-18-07 14:05 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W208S8285 Hillendale (ML11) (E707002-07) Water Sampled: Jul-19-07 08:40 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

S87W22355 Janesville (ML15) (E707002-08) Water Sampled: Jul-19-07 10:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

W207S8686 Hillendale (ML34) (E707002-09) Water Sampled: Jul-19-07 09:30 Received: Jul-19-07 13:10

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Cyanide (total)	U		2	5	ug/L	1	EG72004	Jul-23-07	Jul-24-07	EPA 335.4

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7/27/07
Lora Buco, Chemist

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Superfund, US EPA Region 5	Project: Muskego Sanitary Landfill	
77 West Jackson Boulevard	Project Number: TO14	Reported:
Chicago IL, 60604	Project Manager: Warren Layne	Jul-27-07 10:21

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
< 5X	One or both concentration values for the duplicate analysis audit were less than 5 times the MDL value AND the difference between the two values was less than the MDL value. The duplicate audit is acceptable. No qualification made for this QC audit.
U	Not Detected
NR	Not Reported

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7/27/07
Lora Buco, Chemist

Appendix C
Field Procedures

Field Procedures

1.0 Drilling

The 23 wells were drilled using a rotosonic technique that returns a 3 to 4-inch core of the subsurface material. The initial core barrel is rotated and vibrated down to the target depth. Following this, an outer core barrel 6 inches in diameter is rotated and vibrated down around the inner core barrel to the target depth. Once the outer barrel reaches depth, the inner core barrel, containing the sediment core, is pulled from the borehole. The sample is then pushed out of the core barrel using air into a plastic bag liner; in some cases, water was used to help push the core from the barrel. The core was then moved outside of the drilling area (~30 to 40 feet from the back of the drill rig) and cut open with a stainless-steel machete or spatula. As the core was sliced or separated, a ThermoEnvironmental Photoionization Detector (PID) with an 11.8 eV lamp was moved along the core to determine if VOCs could be detected. If no VOCs were detected, the core was logged using the Unified Soil Classification System (USCS), and discarded into a metal box for later disposal at the landfill. No VOCs were detected during the program, and all core was placed at the MSL to minimize aesthetic impacts at the drill site. All water generated during drilling was captured by a mud pan and was pumped into a polyethylene tank and transported to the WM landfill for disposal in the leachate tank.

For all wells except MW01A, penetrating the Upper Sand Unit and the underlying confining unit, permanent casing was installed using an air rotary technique.

MW01A was not cased through the Upper Sand Unit because VOCs were already detected below the Upper Sand Unit. This was approved by the USEPA (see e-mail approval in Appendix A). Using the shallow wells in the vicinity for depth to clay, a 13-inch borehole was drilled 5 feet into the underlying clay; a A53B Welded Casing was then installed to the bottom of the borehole. Following this, an attempt was made to push the casing another foot into the clay. Once completed, the annulus was sealed using a neat cement grout. The grout was screened and then pumped through a tremie pipe to the bottom of the borehole until it returned at the surface. Upon completion, the grout was given time to settle, and then filled once more to the surface.

2.0 Sampling While Drilling

The procedures described below were followed while taking soil and groundwater samples during the drilling procedure.

2.1 Soil Sampling

For each borehole, soil samples were collected directly from the 3 to 4-inch core into Ziploc bags, using either a nitrile gloved hand or a stainless-steel scoop. The bag was labeled with the borehole number, the date on which the sample was collected, and the depth of the core sample. Soil samples were collected for analysis from permeable zones (< 30% fines) greater than 3 feet thick. The soil sample taken from within the screened interval in the borehole was sent to the laboratory for total organic carbon analysis. When the screened interval was set, the sediment was transferred from the Ziploc storage bag into a 4-ounce amber glass jar using a stainless-steel scoop for TOC analysis. The samples were then placed on ice and shipped to Severn Trent Laboratories (Amherst, New York) via Fed Ex.

2.2 Groundwater Sampling (2005-2006)

For each permeable interval (as defined by the EGMWP) where a monitoring well was not planned, a groundwater sample was taken during drilling. Based on decisions made by the RMT field geologist and the CH2MHill overseer, sampling was conducted in the appropriate intervals. A core with an interval greater than 3 feet thick with less than 30 percent fines would be sampled if no well was planned for that interval. When this situation was encountered, a 10-foot stainless-steel screen 4 inches in diameter would be lowered to the bottom of the borehole. The screen was lowered using an inflatable packer. The packer was then deflated and pulled from the hole leaving the screen at the base of the borehole. The outer 6-inch casing was then pulled up 10 feet to expose the screen to the formation. A 4-inch purge pump was then lowered on a cable into the screen to begin pumping casing volumes and possibly drilling water. A total of three casing volumes, plus the estimated loss to formation while drilling (estimated by driller), were removed before withdrawing the purge pump. All water produced during purging and sampling was pumped into a 1,500-gallon polyethylene tank for disposal into the leachate tank at the WM landfill. A 2-inch Grundfos pump was then lowered down into the screen to begin pumping to collect the sample. The flow rate was reduced to < 500 milliliters per minute, and readings of temperature, pH, specific conductivity, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity were collected. The readings were taken consecutively at 3- to 5- minute intervals until stabilization was achieved. The water was then collected into four 40-milliliter glass vials for VOC analysis, which were subsequently labeled and placed on ice. During sampling, all vehicles were shut off at least 1 minute before the sample was collected. The samples were later sent to CT Laboratories via Fed Ex or Bonded Messenger Service based on determination of needed turnaround time.

2.3 Groundwater Sampling (2007)

For each permeable interval as defined by the EGM Phase 2 Work Plan, a groundwater sample was collected. If a soil sample indicated a groundwater sample should be collected a 2 inch stainless steel screen with a hydraulic packer was lowered into the interval. The six inch outer casing was pulled up 10 feet exposing the screen to the formation. A four inch submersible pump was then lowered on a cable with a packer above it to a depth 3-4 feet above the screen. The packer was inflated and the purging of the interval began at a rate of 1-15 gallons per minute based on formation production. Field parameter readings were taken consecutively at 3- to 5- minute intervals until stabilization was achieved. The water was then collected into four 40-milliliter glass vials for VOC analysis, which were subsequently labeled and placed on ice. The samples were then shipped to CT Laboratories for expedited analysis.

Constituents detected in the raw drilling water during the 2007 results are based on the 3 drill water samples shown in Table 8B. These constituents include several trihalomethanes (THMs), toluene, ethylbenzene, and xylenes (TEX). The THMs are typical chlorination byproducts from the municipal water supply. The TEX compounds (all <1 µg/L) are probably from the hoses and/or tank contents. The THMs and TEX compounds were detected at very similar concentrations in the two different tank samples, labeled GDDR Mini and Drillwater 01 (e.g., chloroform was 1.5 µg/L and 1.7 µg/L, respectively in the two different tanks). The only difference between these samples was 1.4 µg/L of 2-butanone detected in Drillwater 01.

Each of the equipment blanks, equipment rinsed with municipal water from the same source, have essentially the same concentrations of THMs (e.g., chloroform from 0.97 µg/L to 1.6 µg/L), and TEX. These equipment blanks were collected through time and indicates that the municipal supply and effect of the hoses and tanks are very uniform through time.

These samples also indicate that the THMs are relatively stable in the water at these concentrations since even during equipment rinsing they were not significantly reduced by volatilization.

Two of the drill water samples were collected from the same tank, separated by 24 hours, to determine whether the constituents in the raw drilling water are vented from the tank.[1] These two samples (Drill water 01 and Drill water 02) have virtually identical results,[2] indicating that the THMs and TEX compounds are not lost through

---

[1] The tanks are closed and feed the drill rig through continuous pipes or hoses.

[2] The only exception are three constituents (carbon disulfide, 1,2,4-trimethylbenzene and 2-butanone). Carbon disulfide and 2-butanone were detected in only 1 sample each and 1,2,4-TMB was not detected elsewhere. These detections are not considered of significance or value.

time from the drill water tanks. Therefore, drill water is expected to have virtually the same concentration throughout the project and the THMs and TEX are not subject to volatilization losses during storage or use. Therefore, drill water lost to the formation, and then pumped from the formation during sampling, would have the same concentrations as shown in the drill water tanks.

Results of the Phase 2 sampling while drilling is judged to be representative of groundwater from the formation at all locations based on the relatively low THM concentrations detected in the samples. The following table indicates that, except for sample MW10A (165-175 ft), the THMs in the groundwater samples are less than 10% of the drillwater. This indicates that any constituent in the sample would then be at over 90% of the concentration in the groundwater. For purposes of field screening, this is considered very effective.

		GDDR Mini	DRILLWATER 01	DRILLWATER 02	MAXIMUM DETECTED WITHOUT MW10A 165-175	RATIOS OF VAS SAMPLE CONC. TO AVG. DRILLWATER CONC.	MW10A 165-175	% OF AVERAGE IN DRILLWATER01 AND DRILLWATER02
Chloroform	µg/L	1.5	1.7	1.7	0.12	7%	0.28	16%
Bromodichloromethane	µg/L	0.84	1.5	1.5	0.096	8%	0.31	21%
Chlorodibromomethane	µg/L	0.52	1.3	1.2	<0.029	0%	0.33	26%
Bromoform	µg/L	0.12	0.31	0.27	<0.04	0%	0.11	38%

The sample at MW10A (165-175 ft) had higher THM concentrations, so it may be less representative of the groundwater. Constituents in groundwater may have been diluted by drill water from 16% to 38% based on these analyses. This would effectively increase the vinyl chloride detection limit from 0.018 µg/L to 0.024 µg/L. Although slightly over the PAL, this is still considered very effective for field screening.

3.0 Decontamination Procedures

3.1 Drill Rig Decontamination

Following the completion of drilling at each monitoring well location, the sonic rig was loaded with all used rods and returned to the staging area set up in the Waste Management (WM) landfill. The rods were unloaded onto a decontamination pad and pressure-washed with a steam cleaner and Alconox. They were then rinsed with potable water until no visible soap remained. The back of the truck was then backed onto the decontamination pad and also steam-cleaned. Rods were then reloaded onto trucks and transported to the next drilling location. In general, this process took approximately 4 hours and rods were dry before drilling at the next location began.

3.2 Soil Sampling

Instruments used to collect soil samples were cleaned with Alconox and deionized (DI) water after each sample was collected. After cleaning, each instrument was then wrapped several times in heavy-duty aluminum foil until it was used again.

3.3 Groundwater Sampling

Between each groundwater sample, the 10-foot screen, the purge pump, and the Grundfos pump were decontaminated using the following procedures. The screen was first transported back to the decontamination pad; following this, it was pressure-washed with Alconox and steam-cleaned with potable water. The screen was then rinsed with DI water until no visible soap remained. The screen was then loaded back onto the truck. The purge pump was cleaned with the steam cleaner using a mixture of Alconox and potable water, followed by a rinse with potable water. The Grundfos pump was cleaned by running a mixture of hot water from the steam cleaner and Alconox through the pump until at least two pump and tubing volumes had been cycled through the pump. The pump was then placed into a 55-gallon barrel of DI water and allowed to pump until it produced soap-free water. The pumps were then loaded back onto the truck and transported to the next sample location.

3.4 Groundwater Sampling (2007)

Between each sample the screen and packer system was decontaminated using Alconox and potable water at the well site. All decontamination water was contained and disposed of at the MSL leachate tank.

4.0 Well Development

Each well was developed after it was installed according to standards in NR 141. For all wells that could not be purged dry, the wells were surged with the pump head and purged with a 2-inch Grundfos pump for at least 30 minutes. Each well had approximately 10 well/ borehole volumes removed, in an attempt to produce sediment-free water. A well capable of going dry while pumping was pumped slowly using a 2-inch Grundfos pump until it went dry. It was then allowed to recover; this was only possible in the case of MW03A and MW04A. In the case of MW04A, it was found that fine sand had infiltrated the screen and filter pack after the well had been developed. This well was then redeveloped using a PVC bailer to remove the sand that had accumulated. All water produced during development was transported to the WM landfill leachate tank.

Wells MW07S through MW017A were developed using a waterra pump. Each well was purged continuously until ten well volumes had been removed. MW07S was purged dry three times and, therefore, approximately five well volumes were removed.

5.0 Hydraulic Conductivity Testing

Following well development, a pneumatic slug test was performed on each well to determine hydraulic conductivity of the screened formations. The pneumatic apparatus was set on the well with an In-Situ PXD-261 transducer placed through the top to a depth of approximately 20 feet below the water surface. The initial water level was measured with an electronic water level meter. The well was then pressurized (~5-7 PSI) using an air compressor pushing the water level down in the wells. Once the water level had equilibrated, the pressure was released and the recovery was recorded by a Hermit 3000 datalogger.

6.0 Response Test

A response test to pumping at CW07 was conducted. On March 29, 2006, recording pressure transducers (In-Situ Level Trolls) were installed in the following wells: MW01, MW01A, MW01B, MW02, MW03, MW03A, and MW07. The County Park Well 2 was initially planned to be monitored, but lack of access approval prevented installation of the pressure transducer. CW07 was shut down on March 27, 2006, and left off until May 10, 2006. The well was then turned on and pumped at approximately 700 gallons per minute until May 15, 2006, when it was shut off. The well remained off throughout the rest of the test, and the transducers were removed on May 18, 2006. Manual checks of water levels and the transducer recordings were made throughout the test to guard against failure of the transducers.

A second test was started on June 26, 2007, when pressure transducers were installed into County Park 2, MW03A, MW08A, MW09, MW10, MW10A, and MW11A. CW07 was shut off on June 29, 2007, and remained off for approximately 3 days. The pump was then switched on and pumped at approximately 700 gallons per minute until July 6, 2007. It then pumped periodically for the remainder of the test.

7.0 Pump Installation

Dedicated QED Well Wizard bladder pumps were installed in each of the wells, after the response test was completed. Trips to the MSL were made on April 20 and 28, 2006; and additional work on MW07 was performed on June 2, 2006. Basic installation procedures required attaching pump screens and drop tubes to the pump and inserting the pump into the well to the premeasured depth. Pump intakes were placed in the center of the screens. For artesian wells (MW07, MW06, MW07S, MW17, and MW17A), the installation required threading the air and water tubing through a 10-foot mechanical packer, installing a weep hole into the water line below the packer, and installing valves on the discharge lines above the packer. For wells requiring removal of the pump for work, the pump was placed on a new plastic tarp or on unused garbage bags while the pump was repaired. Pieces of the pump were only touched with nitrile-gloved hands, to reduce the risk of contaminating the pump.

8.0 Water Level Measurements

Water level measurements were collected from the wells listed in the workplan, plus additional wells to determine groundwater flow directions in the Upper and Lower Sand Units. The wells were opened and the cap was removed. If there was a release of pressure or air was sucked into the well, it was given time to equilibrate before measuring the water level. The measurement was taken by lowering an electronic water level until the alarm sounded. The depth to water was recorded from where the surveyed elevation was marked on the casing. If no mark existed, the measurement was taken from the highest point on the well casing. In between each well, the water level meter was decontaminated by washing in a DI/Alconox solution followed by a rinse in DI water. For measurement of water levels in County Park 2, the water level meter was washed first with an Alconox/ DI water solution, followed by a rinse with a diluted bleach solution, and finally a rinse with DI water before taking the measurement.

9.0 Groundwater Sampling

Between May 30, and June 2, 2006, a total of 20 monitoring and supply wells were sampled: two private wells, one municipal well, and 17 monitoring wells. An additional private well (Co. Park 2) was included and sampled during the second round (June 27-30, 2006). All monitoring wells were sampled using previously installed Well Wizard bladder pumps. Private wells were sampled from taps closest to the pump intake. The municipal well was sampled prior to treatment and while the well was actively pumping. For monitoring wells, the discharge line was connected to a flow-through cell using dedicated tubing and purged at a rate of less than 500 milliliters per minute, with the exception of MW06 and MW07. The flow of these two artesian wells was restricted as much as practicable without creating unreasonable pressure or turbulence in the discharge. The flow-through cell displayed readings of pH, temperature, specific conductivity, ORP, and DO, which were then recorded in 3-5 minute intervals. Manual readings for turbidity were taken with the previous parameters. Samples were then collected after the previous parameters had stabilized. Stabilization was reached when three consecutive readings fell within the following ranges: ± 0.1 for pH, ± 3% for specific conductivity, ± 10 mV for ORP, and ± 10% for turbidity and DO. Once groundwater had stabilized, samples were collected into containers, labeled, and placed on ice. Samples were analyzed for VOCs, nitrate, ammonia, TKN, alkalinity, sulfate, the TAL, TOC, and chloride.

Two additional rounds of groundwater samples were collected following the well installations in 2007. The first round samples were collected June 4 through June 8, 2007. Procedures for collecting groundwater samples are described above. A total of 36 groundwater monitoring wells and 4 water supply wells were sampled for VOCs, nitrate, ammonia, TKN, alkalinity, sulfate, the TAL, TOC, and chloride. The second round of groundwater samples was collected July 9 to July 13, 2007. A total of 31 monitoring wells, 1 water supply, and one surface water sample was collected and analyzed for VOCs, nitrate, ammonia, TKN, alkalinity, sulfate, TOC, major ions (iron, manganese, calcium, sodium, potassium, and magnesium) and chloride.

However, one group of wells was also analyzed for the TAL during the July 2007 sampling event.

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Appendix D
Boring, Well Construction, and Well Development Logs

Well Development Parameters

Well ID	MW01	MW01A	MW01B	MW02	MW04	MW04A	MW05	MW06	MW07
Date	2/1/2006	3/22/2006	3/20/2006	3/14/2006	3/22/2006	3/29/2006	3/28/2006	3/21/2006	3/23/2006
Dissolved Oxygen	0	-	0.84	0.21	-	0	0.19	-	0
Conductivity	1734	1263	305	1028	1422	406	1313	627	1351
Oxidation/Reduction *Potential*	*-82*	*-405*	*82*	*-75*	*-73*	*-138*	*54*	*-215*	*-12*
Turbidity	159	244	80	5	5	>1000	10	374	>1000
Temp.	7.7	10.4	10.4	11.3	10.8	11.2	10.7	9.7	10.2
pH	7.22	6.51	7.71	6.39	6.19	7.87	6.51	7.01	6.45

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW01

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	10/28/2005		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW01	Feet MSL	827.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 330,901 N, 2,489,238 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 54		1 2 3 4 5 6 7	**LEAN CLAY WITH SAND AND GRAVEL (CL),** medium plasticity, 10YR 3/3 dark brown, no odor, moist, soft to medium stiff.	CL			0						
CS	120 NA		8 9 10 11 12	**CLAYEY SILT (ML),** 10% gravel, non-plastic to low plasticity, 10YR 4/4 dark yellowish brown, no odor, moist, hard.	ML			0						p.p. = 4.5 t

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 3 Tel: (608) 831-44 Fax: (608) 831-33

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	1" silt with gravel and sand, non-plastic, 10YR 5/6 dark yellowish brown, dry.	ML									
			14	**SILTY LEAN CLAY (CL)**, 10% gravel, medium to high plasticity, 10YR 4/2 dark grayish brown, hard.										
			15											p.p. > 4.5 tsi
			16											p.p. = 2.5 ts
			17											
CS	120 124.8		18	**SILTY LEAN CLAY (CL)**, trace fine sand, 10% gravel, moderate to high plasticity, 10YR 4/2 dark grayish brown, no odor, dry, very stiff.				0						
			19											
			20											
			21											
			22		CL									
			23											
			24											
			25											
			26											
			27											
CS	120 148.8		28	**SILTY LEAN CLAY (CL)**, trace fine sand, 10% gravel, moderate to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, stiff.				0						
			29											p.p. = 2.0
			30											
			31									4		
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											p.p. = 2.5 ts
			36											
			37											
CS	120 160.8		38	**SILTY LEAN CLAY (CL),** 10% to 15% gravel, trace sand, moderate to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.										
			39											
			40											
			41											
			42		CL									
			43											
			44											
			45											
			46											
			47											
CS	120 148.8		48	**SILTY LEAN CLAY (CL),** as above, increasing sand and gravel to 10% to 15% gravel, trace to 10% sand, stiff to very stiff.										
			49											
			50											
			51									5		
			52											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53											
			54											
			55		CL									
			56											
			57	At 57 feet, 1" fine sand with clay and gravel, 50% sand, 15% gravel, 35% fines, low plasticity, 10YR 4/2 dark grayish brown, no odor, moist, gravel up to 2" diameter.										
CS	120 122.4		58					0						
			59	**SILTY SAND (SM)**, 20% to 40% fines, some clay, non-plastic to low plasticity, 10YR 4/2 dark grayish brown, no odor, moist to wet, soft.	SM									
			60	**CLAYEY SILT WITH SAND (ML)**, 20% sand, moderate plasticity, 10YR 4/2 dark grayish brown, no odor, moist to wet, stiff to very stiff.	ML									
			61		SM									
			62	**SILTY SAND (SM)**, medium sand, 10% to 20% fines, 10% gravel, no odor, wet, loose.	ML									
			63		SM									
			64	**CLAYEY SILT (ML)**, 10% fine sand, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.										
			65	**SILTY SAND (SM)**, 10% to 20% fines, coarse sand, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, loose to medium dense, coarsens downward.										
			66	**SILTY LEAN CLAY (CL)**, 90% fines, medium to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.										
			67		CL									
CS	120 134.4		68	Same as above.				0						
			69											p.p. = 2.5 t
			70											
			71									6		
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75		CL									
			76	At 76 feet, 4" seam of silt with clay, low plasticity, 2.5Y 4/2 dark grayish brown, no odor, moist, soft.										p.p. = 2.0 ts
			77	*Silty lean clay as above, more silt.*										p.p. = 3.0 ts
CS	120 122.4		78	End of 68 to 78 foot core, coarse sand and clay.				0						
			79	**SILTY SAND (SM),** fine sand, 30% fines, trace fine gravel, non-plastic, 10YR 4/3 brown, no odor, moist to wet, loose to medium dense.	SM									
			80											
			81	**SILTY SAND (SM),** coarse sand, 15% to 20% fines, trace to 5% fine gravel, 10YR 4/3 brown, no odor, wet, loose to medium dense.	SM									
			82											
			83											
			84	**CLAYEY SILT (ML),** trace sand and gravel, low to moderate plasticity, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.										
			85											
			86											p.p. = 2.5 t
			87											
CS	120 72		88	Same as above.	ML									
			89											
			90											
			91											
			92											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		ML									
			93	**WELL GRADED GRAVEL WITH SILT (GW-GM),** 10% fines, 10% to 20% fine to coarse sand, non-plastic, no odor, wet, loose, large cobble in end of core barrel, 4" diameter.	GW-GM									
			94											
			95											
			96											
			97											
CS	120 NA		98	**SILTY GRAVEL (GM),** as at 93 feet, but 20% to 30% fines.	GM									
			99	**SILTY LEAN CLAY (CL),** trace gravel and fine sand, slight to moderate plasticity, 10YR 4/2 dark grayish brown, no color, no odor, moist, stiff to very stiff.	CL									
			100											
			101											
			102											
			103											
			104											
			105											
			106											
			107											
			108	**End of boring at 108.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW01A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	3/16/2006		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW01A	Feet MSL	826.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 330,878 N, 2,489,240 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 98 feet. See boring log MW01 for detailed soil descriptions.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-44 Fax: (608) 831-33

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30										10	
			31											
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51										11	
			52											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
			95											
			96											
			97											
CS	120 120		98	**WELL GRADED SAND (SW),** 2.5Y 4/2 dark grayish brown, no odor, saturated, loose.	SW			0						
			99											
			100											
			101	**WELL GRADED GRAVEL (GW),** 10YR 5/2 grayish brown, no odor, saturated, loose.	GW									
			102											
			103											
			104											
			105	**SILTY LEAN CLAY (CL),** high plasticity, 2.5Y 5/1 gray, no odor, moist, stiff to very stiff.										
			106											
			107											
CS	120 120		108	**SILTY LEAN CLAY (CL),** high plasticity, 10YR 5/2 grayish brown, no odor, moist, stiff.	CL			0						
			109											
			110											
			111											
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
			114	Same as above.										
			115											
			116											
			117		CL									
CS	120 120		118	**SILTY LEAN CLAY (CL),** high plasticity, 10YR 5/2 grayish brown, no odor, moist, very stiff.				0						
			119											
			120											
			121	**WELL GRADED GRAVEL WITH SAND (GW),** 10YR 5/1 gray, no odor, saturated, loose.	GW									
			122	**WELL GRADED GRAVEL WITH SAND (GW),** 7.5YR 5/1 gray, no odor, saturated, loose.										
			123	**LEAN CLAY (CL),** high plasticity, 2.5YR 5/2 grayish brown, no odor, moist, stiff.	CL									
			124	**WELL GRADED GRAVEL WITH SAND (GW),** coarsening downward, 7.5YR 5/1 gray, no oodr, saturated, 1" silty clay layer at 125 feet.	GW									
			125	**POORLY GRADED SAND (SP),** fine to medium sand, 7/5YR 5/1 gray, no odor, saturated.	SP									
			126	**SILTY LEAN CLAY (CL),** high plasticity, 2.5YR 5/2 grayish brown, no odor, moist, stiff.	CL									
CS	120 90		127					0						
			128											
			129											
			130											
			131	**SILTY SAND (SM),** very fine to fine sand, 7.5YR 5/1 gray, no odor, saturated.	SM									
			132											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133	**SILTY LEAN CLAY (CL),** high plasticity, 2.5YR 5/2 grayish brown, no odor, moist, medium dense.	CL									
			134	**WELL GRADED SAND WITH GRAVEL (SW),** medium to very coarse sand, fine gravel with trace coarse gravel, 7.5YR 5/1 gray, no odor, saturated, loose.	SW									
			135											
			136											
			137	**WELL GRADED GRAVEL WITH SAND (GW),** trace cobbles, rounded to subrounded, coarsening downward, 7.5YR 6/1 gray, no odor, saturated.										
CS	120 120		138	**WELL GRADED GRAVEL WITH SAND (GW),** trace silt and trace cobbles, 7.5YR 6/1 gray, no odor, saturated, gravel is subrounded.	GW			0						
			139											
			140											
			141	**WELL GRADED SAND WITH GRAVEL (SW),** 30% gravel, 7.5YR 6/1 gray, no odor, saturated.	SW									
			142	**SILTY LEAN CLAY (CL),** high plasticity, 7.5YR 4/1 dark gray, no odor, moist.										
			143		CL									
			144											
			145											
			146	**WELL GRADED GRAVEL WITH SAND (GW),** 7.5YR 5/1 gray, no odor, saturated.	GW									
			147	**SILTY LEAN CLAY (CL),** as at 142 feet.	CL									
			148	**End of boring at 148.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW01B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	1/24/2006		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW01B	Feet MSL	827.2 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 330,887 N, 2,489,239 E S/C/N
1/4 of 1/4 of Section , T N. R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 107 feet. See boring log MW01 for detailed soil descriptions.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: (608) 831-4
Fax: (608) 831-3

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30									18		
			31											
			32											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50										9	
			51											
			52											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71									20		
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
CS	132 145.2		93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112	**SILTY LEAN CLAY (CL)**, trace to no gravel, medium to high plasticity, 10YR 4/3 brown, no odor, moist, stiff to hard.	CL			0				22		

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
			114											
			115											
			116											
			117											
			118		CL									
CS	120 120			Same as above.				0						
			119											
			120											
			121											
			122											
			123											
			124	**WELL GRADED SAND WITH GRAVEL (SW),** medium to coarse sand, 10% to 20% gravel, 5% to 10% fines, non-plastic, no odor, wet, dense.	SW									
			125											
			126											
			127											
			128											
CS	120 72			**SILTY SAND (SM),** fine sand, 30% to 40% fines, 10YR 4/2 dark grayish brown, non-plastic, no odor, wet, dense to very dense.				0						
			129		SM									
			130											
			131											
				WELL GRADED SAND WITH GRAVEL (SW), fine to coarse sand, 15%	SW									
			132											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133	to 20% fine to medium gravel, 5% to 10% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, medium dense.										
			134											
			135		SW									
			136											
			137											
			138											
CS	120 129.6		139	**SILTY LEAN CLAY (CL),** trace gravel and sand, medium plasticity, 10YR 4/3 brown, no odor, moist, very stiff to hard.				0						
			140											
			141											
			142											
			143											
			144											
			145		CL									
			146											
			147											
CS	120 132		148	Same as above.				0						
			149											
			150											
			151											
			152											

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Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153	**WELL GRADED SAND WITH GRAVEL (SW),** fine to coarse sand, 10% to 20% fine gravel, 5% to 15% fines, no odor, wet, medium dense.	SW									
			154	**SILTY LEAN CLAY (CL),** as at 138 feet.	CL									
			155											
			156											
			157											
CS	120 132		158	Same as above.				0						
			159	**SILTY SAND (SM),** fine sand, 20% to 30% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.	SM									
			160											
			161											
			162											
			163											
			164	**SILTY LEAN CLAY (CL),** as at 138 feet.	CL									
			165	**POORLY GRADED SAND WITH SILT (SP-SM),** fine sand, 10% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.	SP-SM									
			166											
			167											
CS	120 151.2		168	**SILTY LEAN CLAY (CL),** trace sand, trace gravel, moderate to very plastic, 10YR 5/3 brown, no odor, moist, very stiff.	CL			0						
			169											
			170											
			171											
			172											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			173											
			174											
			175											
			176											
			177		CL									
CS	120 120		178					0						
			179											
			180											
			181											
			182											
			183	**WELL GRADED GRAVEL WITH SAND (GW),** fine to coarse gravel and cobbles (to 4" diameter), 30% to 40% sand, 5% to 10% fines, non-plastic, no odor, wet, dense.										
			184											
			185											
			186		GW									
			187											
CS	120 120		188					0						
			189											
			190											
			191	**WELL GRADED SAND (SW),** trace to 5% fine gravel, 5% to 10% fines, non-plastic, 10YR 5/3 brown, no odor, wet, dense, cobbles at base.	SW								26	
			192											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			193	**SANDY GRAVELLY SILTY LEAN CLAY (CL),** 10% to 20% sand, 10% to 20% gravel, slightly plastic, 10YR 4/3 brown, no odor, moist, very stiff.	CL									
			194	**WELL GRADED SAND WITH GRAVEL (SW),** 20% to 30% gravel, 5% to 10% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.	SW									
			195	**SANDY SILTY LEAN CLAY (CL),** 20% to 30% sand, 10% to 20% gravel, low to medium plasticity, 10YR 4/2 dark grayish brown, medium stiff to stiff.	CL									
			196											
			197											
CS	120 124.8		198	**SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 20% to 30% fine to coarse gravel, non-plastic, 10YR 5/2 grayish brown, no odor, dry to moist, very hard.				0						Very difficult drilling.
			199											
			200											
			201											
			202											
			203											
			204											
			205		SM									
			206											
			207											
CS	120 133.2		208	Same as above.				0						
			209											
			210											
			211											
			212											

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Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			213											
			214											
			215											
			216											
			217											
CS	120 127.2		218	Same as above, less silt (20% to 30% fines).				0						
			219											
			220											
			221											
			222		SM									
			223											
			224											
			225											
			226											
			227											
CS	120 154.8		228	Same as above, dry and loose.				0						Very slow drilling.
			229											
			230											
			231											
			232											

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Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			233											
			234											
			235											
			236											
			237											
CS	120 66		238	Same as above, harder, dry and loose.				0						
			239											
			240											
			241											
			242		SM									
			243											
			244											
			245											
			246	Same as above.										
			247											
CS	120 122.4		248	Same as above.				0						
			249											
			250											
			251	**SILTY SAND WITH GRAVEL (SM),** well graded sand, 20% to 30% fines, 20% to 30% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense, fines										
			252											

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Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			253	downward. **SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 20% to 30% gravel, non-plastic, 10YR 5/2 grayish brown, no odor, moist, very hard.	SM									
			254											
			255											
			256											
			257	**WELL GRADED SAND WITH GRAVEL (SW),** 30% to 40% fine to coarse gravel, 5% to 10% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.	SW									
CS	120 120		258					0						
			259	**SILTY SAND WITH GRAVEL (SM),** 30% fines, 20% to 30% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, very hard.	SM									
			260											
			261	**WELL GRADED SAND WITH GRAVEL (SW),** 30% to 40% fine to coarse gravel, 10% to 20% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.	SW									
			262											
			263	**SILTY SAND WITH GRAVEL (SM),** as at 258 feet.										
			264											
			265											
			266											
			267		SM									
CS	120 90		268	Same as above.				0						
			269											
			270											
			271											
			272											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW01B Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			273											
			274											
			275		SM									
			276											
			277											
			278	**End of boring at 278.0 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	11/2/2005		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW02	Feet MSL	853.9 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 331,907 N, 2,488,979 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 55.2		1	**SILTY SAND WITH GRAVEL (SM)**, 40% fines, 20% to 30% gravel, non-plastic, 10YR 5/6 dark yellowish brown, no odor, dry. (Fill)	SM			0						
			2	**SANDY LEAN CLAY (CL)**, 30% fine sand, low to moderate plasticity, 10YR 3/4 dark yellowish brown, no odor, moist.	CL									
			3	**GRAVELLY SILTY LEAN CLAY (CL)**, 25% to 30% gravel, 10% fine sand, moderate plasticity, 10YR 4/5 dark yellowish brown, no odor, moist, hard.										
			4											
			5		CL									
			6											p.p. > 4.5 ts
			7											
CS	120 134.4		8	**CLAYEY SILT WITH GRAVEL (ML)**, 15% to 20% gravel, non-plastic, 10YR 4/5 dark yellowish brown, no odor, dry.				0						
			9											
			10		ML									
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: (608) 831-444
Fax: (608) 831-333

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number MW02 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13		ML									
			14											
			15	**SILTY LEAN CLAY WITH GRAVEL (CL),** 10% to 15% gravel, low to moderate plasticity, 10YR 4/4 dark yellowish brown, no odor, dry to moist, hard.										p.p. = 4.5 t
			16											
			17											
CS	120		18	**SILTY LEAN CLAY (CL),** 5% to 10% gravel, trace sand, moderate to high plasticity, 7/5YR 4/2 brown, no odor, moist.										
			19											
			20											
			21		CL									
			22											
			23											
			24											
			25											
			26											
			27											
CS	120		28	**SANDY LEAN CLAY WITH GRAVEL (CL),** 20% to 30% sand, 10% to 20% gravel, slight plasticity, 10YR 4/2 dark grayish brown, no odor, moist.										
			29		CL									
			30	**SILTY LEAN CLAY (CL),** as at 18 feet.										
			31		CL									
			32											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW02 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	120 132.0		38	**SILTY LEAN CLAY (CL),** trace sand and gravel, moderate to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, very stiff.	CL			0						p.p. = 4.0 ts
			44	**GRAVELLY LEAN CLAY (CL),** 20% to 30% gravel, 10% sand, low to moderate plasticity, 10YR 4/2 dark grayish brown, no odor, moist, very stiff.	CL									p.p. = 3.5 ts
			46	**SILTY LEAN CLAY (CL),** 10% sand, 10% gravel, medium to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, hard.										p.p. > 4.5 ts
CS	120 134.4		48	Same as above.	CL									

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW02 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55		CL									
			56											
			57											
CS	120 129.6		58	**CLAYEY SILT WITH SAND (ML)**, 20% to 30% fine sand, low plasticity, 10YR 4/2 dark grayish brown, no odor, moist.	ML									
			59	**GRAVELLY LEAN CLAY (CL)**, 30% to 40% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet.	CL									
			60	**CLAYEY SILT WITH GRAVEL (ML)**, 20% to 30% gravel, low to medium plasticity, 10YR 4/2 dark grayish brown, no odor, moist.	ML									
			61	**SILTY CLAYEY SAND (SC)**, 40% fines, low plasticity, 10YR 5/2 grayish brown, no odor, wet.	SC									
			62	**SILTY SAND WITH GRAVEL (SM)**, 10% to 20% fines, 10% to 20% gravel, 10YR 4/2 dark grayish brown, no odor, wet.	SM									
			63											
			64											
			65	**SILTY LEAN CLAY (CL)**, low to medium plasticity, 10YR 3/4 brown, no odor, moist, crumbly.										
			66											
			67		CL									
CS	120 122.4		68											
			69											
			70											
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW02 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73	**POORLY GRADED GRAVEL WITH SILT (GP-GM),** 10% fines, 10% sand, non-plastic, 2.5Y 6/3 light yellowish brown, no odor, wet.	CL / GP-GM									
			74											
			75	**WELL GRADED SAND (SW),** trace gravel and silt, fine to coarse sand, mostly fine sand, non-plastic, 10YR 6/4 light yellowish brown, no odor, moist to wet.										
			76											
			77											
CS	120 124.8		78	Same as above.				0						
			79											
			80	Same as above, but 10% to 15% gravel, 5% to 10% fines, color change.										
			81											
			82											
			83		SW									
			84											
			85											
			86											
			87											
CS	120 122.4		88	Same as above, but trace to 5% gravel.				0						
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW02 Use only as an attachment to Form 4400-122. Page 6 of 6

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		SW									
			94											
			95	**SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 10% to 20% gravel, non-plastic, 10YR 4/3 dark grayish brown, no odor, moist.										
			96											
			97											
CS	120		98	**SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 10% to 20% gravel, 2.5Y 5/2 grayish brown, no odor, dry.										Drilling tool 20 minutes to advance rod 10 feet and pull o... (10 minu for 10 fo advance), very hard, some areas of till dried out due to heat generated during vibrating and drilling
			99											
			100											
			101		SM									
			102											
			103											
			104											
			105											
			106											
			107											
			108	**End of boring at 108.0 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	10/26/2005		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW03	Feet MSL	819.3 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 331,390 N, 2,490,873 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**CLAYEY SAND (SC),** 40% fines, trace organics, low plasticity, 7.5YR 2.5/1 black, no odor, moist. (Topsoil)	SC			0						
			2											
			3	**SILTY LEAN CLAY WITH SAND (CL),** 20% to 30% fine sand, trace gravel, moderate plasticity, 10YR 4/6, dry.										
			4											
			5	Same as above, drier and more sand (35% sand).										
			6											
			7	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 20% sand, trace fine gravel, medium to high plasticity, 10YR 4/5 dark yellowish brown, no odor, some oxidation, orange and gray mottling.	CL									p.p. > 4.5 t
			8					0.1						
			9											
			10											
			11	**SILTY LEAN CLAY (CL),** trace sand and gravel, very plastic, 10YR 4/2 dark	CL									
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Nathaniel R Keller | Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 | 39 | Tel: (608) 831-44 Fax: (608) 831-33

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			12	grayish brown, no odor.				0						
			13											
			14	Same as above.										
			15											
			16	**SILTY LEAN CLAY (CL),** 5% to 10% fine sand, trace fine gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, very stiff.										p.p. = 2.5 ts
			17											
			18	**SILTY LEAN CLAY (CL),** trace gravel, subangular gravel, plastic, 10YR 4/2 dark grayish brown, no odor, moist, very stiff.				0.1						p.p. = 2.25 tsf
			19											
			20											
			21											
			22		CL									
			23											
			24											
			25											
			26											
			27											
			28	Same as above.										
			29											
			30											
			31									40		
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			33											
			34											
			35											
			36	0.15 feet of sandy clay (CL), 40% to 50% coarse sand, trace fine gravel, low plasticity, 10YR 4/2 dark grayish brown, no odor, moist.	CL									
			37											
			38	**SILTY LEAN CLAY (CL),** trace gravel, as at 18 feet.				0						
			39											
			40											
			41											
			42	**CLAYEY SILT (ML),** non-plastic to low plasticity, 10YR 4/2 dark grayish brown.	ML									
			43	**SILTY LEAN CLAY (CL),** as at 38 feet, color change to 7.5YR 4/2 brown, moist, very stiff to hard.										
			44											p.p. = 4.5 t
			45											
			46	4" silt with clay, 10YR 4/2 dark grayish brown.										
			47	Two interbeds of gray silt at 47.7 feet.	CL									
			48	**SILTY LEAN CLAY (CL),** medium plasticity, 7.5YR 4/2 brown, no odor, moist, very stiff to hard, some lamination.										
			49											
			50											
			51											
			52											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53											
			54	**SILTY LEAN CLAY (CL),** very plastic, 7.5YR 4/2 brown, no odor, moist.										
			55											
			56											
			57											
			58	Same as above.	CL									
			59											
			60											
			61											
			62											
			63											
			64	Same as above, siltier.										
			65	**CLAYEY SILT (ML),** low plasticity, 10YR 4/2 dark grayish brown, no odor, crumbles.										
			66											
			67											
			68	Same as above.	ML									
			69											
			70											
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			73											
			74											
			75		ML									
			76											
			77											
			78	**WELL GRADED GRAVEL (GW)**, trace to 10% coarse sand, non-plastic, largely dolomitic gravel, wet, cobble lodged in end of core barrel.										
			79											
			80											
			81											
			82											
			83		GW									
			84											
			85											
			86											
			87											
			88	**LEAN CLAY WITH GRAVEL (CL)**, 20% gravel, 10% sand, low to moderate plasticity, 10YR 4/2 dark grayish brown, moist, very stiff to hard.										
			89											
			90		ML									
			91											
			92											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		ML									
			94											
			95											
			96											
			97											
			98	End of boring at 98.0 feet.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW03A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	12/20/2005		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW03A	Feet MSL	818.8 Feet MSL	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 331,381 N, 2,490,867 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 95 feet. See boring log for MW03 for detailed soil descriptions.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 45 Tel: (608) 831-444. Fax: (608) 831-333.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30										46	
			31											
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51									47		
			52											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70										48	
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample										Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
CS	156 156		95	**GRAVELLY SILT WITH SAND (ML),** 10% to 30% fine to coarse gravel, 10% to 20% fine sand, non-plastic to slightly plastic, 10YR 4/2 dark grayish brown, no odor, dry to moist, very stiff.				0						
			96											
			97											
			98											
			99											
			100											
			101											
			102											
			103		ML									
			104											
			105											
			106											
			107											
CS	120 129.6		108	Same as above.				0						
			109											
			110											
			111										50	
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	120 90		113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132	Same as above, slightly more sand, very hard/dense.	ML			0						
CS	120 126			Same as above, higher density.				0						

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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
			134											
			135											
			136											
			137											
CS	120 128.4		138	Same as above.				0						
			139											
			140											
			141											
			142		ML									
			143											
			144											
			145											
			146											
			147											
CS	120 133.2		148	Same as above.				0						
			149											
			150											
			151											
			152											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153											
			154											
			155											
			156											
			157											
CS	120 140.4		158	Same as above, 0.5" to 1" medium sand seam at 159 feet.				0						
			159											
			160											
			161											
			162		ML									
			163											
			164											
			165											
			166											
			167											
CS	120 132		168	Same as above.				0						
			169											
			170											
			171											
			172											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			173											
			174											
			175											
			176											
			177											
CS	120		178	Same as above.										
			179											
			180											
			181											
			182		ML									
			183											
			184											
			185											
			186											
			187											
CS	120 109.2		188	**GRAVELLY SILT WITH SAND (ML),** trace clay, 10% to 30% gravel, 10% to 20% medium sand, 10YR 42 dark grayish brown, no odor, dry, hard to very hard.				0						Drilling very difficult.
			189											
			190											
			191											
			192											

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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			193											
			194											
			195											
			196											
			197		ML									
				Bottom 3" of interval - more gravel, fewer fines.										
CS	120 140.4		198	Same as above (at 188 feet).				0						
			199											
			200											
			201	**SILTY SAND WITH GRAVEL (SM),** fine to coarse sand, 30% fines, non-plastic, 10YR 4/3 brown, dry, dense to very dense.	SM									
			202											
			203	**GRAVELLY SILT WITH SAND (ML),** as at 188 feet.										
			204											
			205											
			206	3" of gravelly sand at 206 feet.										
			207		ML									
CS	120 141.6		208	**GRAVELLY SILT WITH SAND (ML),** 10% to 30% gravel, 10% to 30% fine to medium sand, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, hard to very hard.				0						
			209											
			210											
			211											
			212											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			213											
			214											
			215											
			216											
			217											
CS	120 133.2		218	Same as above, color change to 10YR 5/2 grayish brown.				0						
			219											
			220											
			221											
			222		ML									
			223											
			224											
			225											
			226											
			227											
CS	120 145.2		228	Same as above.				0						
			229											
			230	WM/M 04-001280										
			231											
			232											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			233		ML									
			234											
			235	**SILTY SAND WITH GRAVEL (SM),** 30% fines, non-plastic, 10YR 4/3 brown, moist, dense to very dense.	SM									
			236	**GRAVELLY SILT WITH SAND (ML),** as at 218 feet.										
			237		ML									
CS	120 139.2		238	Same as above.				0						
			239	**SANDY SILT (ML),** 20% to 40% fine sand, 10% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, dense to very dense.	ML									
			240											
			241	**GRAVELLY SILT WITH SAND (ML),** as at 238 feet.										
			242											
			243											
			244		ML									
			245											
			246											
			247											
CS	120 140.4		248	**GRAVELLY SILT (ML),** with clay, trace sand, 10% to 30% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, hard.				0						
			249											
			250		ML									
			251											
			252											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			253											
			254											
			255		ML									
			256											
			257											
CS	120 122.4		258	**SILTY LEAN CLAY WITH GRAVEL (CL)**, 10% to 20% fine to coarse gravel and cobbles, slightly plastic.				0						
			259											
			260											
			261											
			262											
			263											
			264											
			265		CL									
			266											
			267											
CS	96 116.4		268	Same as above.				0						
			269											
			270											
			271											
			272											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW03A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			273	**DOLOMITE BEDROCK,** weathered and unweathered, microcrystalline, gray to light gray, no odor, dry, medium dense, fractured.										
			274											
			275											
			276	**End of boring at 276.0 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW04

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	2/22/2006	3/6/2006	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW04	Feet MSL	826.2 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 327,371 N, 2,486,464 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 26.4		1	**CLAYEY SILT (ML),** trace sand, 60% to 80% fines, low plasticity, 7.5YR 5/4 brown with gray mottling, no odor, moist, stiff.	ML			0						
CS	120 142.8		8	Same as above.				0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-444 Fax: (608) 831-333

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW04 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13		ML									
			14											
			15	**SILTY LEAN CLAY (CL),** trace coarse sand and gravel, plastic, 7.5YR 5/1 gray, no odor, moist, stiff.										
			16											
			17											
CS	120 124.8		18	Same as above.				0						
			19											
			20											
			21		CL									
			22											
			23											
			24											
			25											
			26											
			27	**SILTY SAND (SM),** poorly graded sand, 20% to 30% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense, appears to coarsen to medium sand at very tip of core.	SM									
CS	120 120		28					0						
			29	**SILTY SAND (SM),** poorly graded medium sand, 20% to 30% fines non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, dense.										
			30	**SILTY LEAN CLAY (CL),** trace gravel and coarse sand, 70% to 80% fines, plastic, 10YR 4/2 dark grayish brown, no odor, moist, very stiff to hard.	CL								62	
			31											
			32											

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Boring Number MW04 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33		CL									
			34	**WELL GRADED SAND WITH SILT (SW-SM),** medium to coarse sand, 10% to 20% fines, non-plastic, 7.5YR 5/1 gray, wet, dense to very dense.										
			35											
			36		SW-SM									
			37											
CS	120 102		38	**SILTY LEAN CLAY (CL),** trace to no gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, hard.				0						
			39											
			40											
			41		CL									
			42											
			43											
			44	**WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM),** 20% to 30% medium gravel, 10% to 20% fines, non-plastic, 2.5Y 5/2 grayish brown, no odor, moist, dense.	SW-SM									
			45											
			46	**POORLY GRADED SAND WITH SILT (SP-SM),** 10% fines, 2.5Y 6/4 light yellowish brown, non-plastic, no odor, moist, dense to very dense.										
			47											
CS	120 93.6		48	**POORLY GRADED SAND WITH SILT (SP-SM),** medium sand, trace gravel, 10% fines, 2.5Y 5/3 light olive brown, non-plastic, no odor, moist to wet, dense to very dense.	SP-SM			0						
			49											
			50											
			51	6" silt seam at 51 feet bgs, 10YR 4/2 dark grayish brown, stiff to very stiff.										
			52											

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Boring Number MW04 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
CS	120 120		58	**POORLY GRADED SAND WITH SILT (SP-SM),** medium sand, 10% fines, 2.5Y 5/3 light olive brown, no odor, wet, dense.				0						
			59											
			60		SP-SM									
			61											
			62											
			63											
			64											
			65											
			66											
			67											
CS	120 114		68	**WELL GRADED SAND WITH SILT (SW-SM),** fine to coarse sand, 10% to 20% silt, trace gravel, 2.5Y 5/3 light olive brown, no odor, wet, dense to very dense.				0						
			69											
			70		SW-SM									
			71											
			72											

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Boring Number MW04 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73		SW-SM									
			74											
			75	**POORLY GRADED SAND WITH SILT (SP-SM),** 10% to 20% silt, coarse seam with shell fragments at 76 feet, trace wood debris throughout.										Gradationa contact.
			76		SP-SM									
			77											
CS	120 127.2		78	**WELL GRADED SAND WITH SILT (SW-SM),** fine to medium sand, 10% fines, non-plastic, 10YR 5/4 light olive brown, no odor, wet, medium dense, silt content increases with depth.				0						
			79											
			80											
			81											
			82		SW-SM									
			83											
			84											
			85											
			86											
			87	**SILTY SAND (SM),** 20% to 30% silt, 2" clay seam at 87.5 feet.	SM									
CS	120 120		88	**WELL GRADED SAND WITH SILT (SW-SM),** fine to medium sand, trace to some silt, non-plastic, 10YR 5/4 light olive brown, no odor, moist to wet, dense, fines downward.				0						
			89											
			90		SW-SM									
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

; Number MW04 Use only as an attachment to Form 4400-122.

ple Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
120 108		93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	**WELL GRADED SAND WITH SILT (SW-SM),** 10% to 20% silt, non-plastic, 10YR 5/4 light olive brown, no odor, moist to wet, dense to very dense.	SW-SM			0						
120 138		108 109 110 111 112	**WELL GRADED SAND WITH SILT (SW-SM),** fine to medium sand, 10% to 20% silt, trace gravel, non-plastic, 2.5YR 5/4 light olive brown, no odor, moist to wet, dense, fines increase to approximately 30% at 112 feet.				0						

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					SW-SM									
			113	**SILTY LEAN CLAY (CL)**, trace gravel, 80% to 90% fines, very plastic, 10YR 4/3 brown, no odor, moist, stiff to very stiff.										
			114											
			115		CL									
			116											
			117											
CS	120 138		118	**SILTY LEAN CLAY WITH SAND (CL)**, trace gravel, 10% to 20% fine sand, medium plasticity, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.				0						
			119											
			120											
			121											
			122											
			123											
			124											
			125		CL									
			126											
			127											
CS	120 163.2		128	**SILTY LEAN CLAY WITH SAND TO SANDY LEAN CLAY (CL)**, 20% to 30% fine sand, plastic, 10YR 4/2 dark grayish brown, no odor, moist, soft to medium stiff.				0						
			129											
			130											
			131											
			132											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04 Use only as an attachment to Form 4400-122. Page 8 of 8

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			133		CL									
			134											
			135											
			136											
			137											
			138	End of boring at 138.0 feet.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW04A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	3/21/2006		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW04A	Feet MSL	826.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 327,366 N, 2,486,464 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1 2 3 4 5 6 7 8 9 10 11 12	Blind drilled to 120 feet. See boring log MW04 for detailed soil descriptions.										

I hereby certify that the information on this form is true and correct to the best of my knowledge. 69

Signature	Firm	
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-444 Fax: (608) 831-333

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31										70	
			32											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72										72	

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
			95											
			96											
			97											
			98											
			99											
			100											
			101											
			102											
			103											
			104											
			105											
			106											
			107											
			108											
			109											
			110											
			111										74	
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113											
			114											
			115											
			116											
			117											
			118											
			119											
CS	96 54		120	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 20% fines sand, very plastic, no odor, moist, stiff.				0						
			121											
			122											
			123											
			124											
			125											
			126											
			127											
CS	120 108		128	Same as above.				0						
			129											
			130											
			131											
			132											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122. Page 8 of 10

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
			134											
			135											
			136											
			137											
CS	120 124.8		138	Same as above, very plastic, softer (soft).				0						
			139											
			140											
			141											
			142											
			143											
			144											
			145											
			146	**SILTY SAND (SM)**, fine sand, 30% to 40% fines, non-plastic, no odor, wet, medium dense.										
			147											
CS	120 132		148	Same as above, approximately 20% silt.	SM			0						
			149											
			150											
			151											
			152											

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Boring Number MW04A Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			153	**SANDY LEAN CLAY (CL),** trace gravel, 20% to 30% sand, plastic, no odor, moist, becomes drier with depth, stiff.	CL									
			154											
			155											
			156											
			157											
CS	120 150		158	**SILTY SAND (SM),** 20% to 30% silt, *non-plastic,* 10YR 4/2 dark grayish brown, no odor, moist to wet, very dense.				0						
			159											
			160											
			161											
			162											
			163		SM									
			164											
			165											
			166											
			167											
CS	120 114		168	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 4/2 dark grayish brown, no odor, sulfur odor, moist, very stiff to hard.				0						
			169											
			170		CL									
			171											
			172											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW04A Use only as an attachment to Form 4400-122. Page 10 of 10

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			173											
			174		CL									
			175											
			176	**WEATHERED DOLOMITE,** fractured, gray with white clayey matrix.										
			177	**DOLOMITE,** microcrystalline, gray.										
			178	**End of boring at 178 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW05

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	1/9/2006		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW05	Feet MSL	811.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 327,995 N, 2,489,299 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 51.6		1	**SILTY LEAN CLAY (CL)**, trace fine sand, medium plasticity, 10YR 2/1 black to 10YR 2/2 very dark brown, no odor, moist, soft, organics.	CL			0						
			2											
			3	**LEAN CLAY WITH SAND (CL)**, 20% to 30% fine sand, medium plasticity, 2.5Y 4/3 olive brown with mottling, no odor, moist, soft to stiff, trace organics.										
			4											
			5		CL									
			6	**LEAN CLAY WITH SAND (CL)**, trace fine gravel, 20% to 30% fine to medium sand, medium plasticity, 10YR 4/4 dark yellowish brown, some mottling, no odor, moist, medium stiff.										
			7											
CS	120 165.6		8	**SILTY LEAN CLAY (CL)**, 5% to 10% coarse sand, 5% to 10% gravel, medium to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, medium stiff to stiff.				0						
			9											
			10		CL									
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 831-4444
Matthew J. Keller	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Fax: (608) 831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
CS	120 133.2		18					0						
			19		CL									
			20											
			21											
			22											
			23											
			24											
			25											
			26	**SILTY SAND WITH GRAVEL (SM)**, 10% to 30% fines, 20% to 30% fine gravel, non-plastic, gray to dark gray, no odor, moist, dense to medium dense.	SM									
			27	**SILTY LEAN CLAY (CL)**, as at 18 feet.										
CS	120 144		28	**SILTY LEAN CLAY (CL)**, trace coarse sand and gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.				0						
			29		CL									
			30											
			31											
			32											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
CS	120 90		38	Same as above, low to medium plasticity.				0						
			39											
			40											
			41											
			42		CL									
			43											
			44											
			45											
			46											
			47											
CS	120 138		48	**SILTY LEAN CLAY (CL)**, trace sand and gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, stiff.				0						
			49											
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
CS	120 130.8		58	Same as above.				0						
			59											
			60											
			61											
			62		CL									
			63											
			64											
			65											
			66											
			67											
CS	120 122.4		68	Same as above.				0						
			69											
			70											
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
CS	120		78	Same as above.				0						
			79											
			80											
			81											
			82		CL									
			83											
			84											
			85											
			86											
			87	Increasing sand near bottom of interval (10% to 20% coarse sand).										
CS	120 150		88	**SILTY LEAN CLAY (CL)**, trace sand and gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, soft to stiff.				0						
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		CL									
			94	**SANDY CLAYEY SILT (ML),** 30% to 40% fine sand, low plasticity, 10YR 4/2 dark grayish brown, no odor, moist to wet, soft.	ML									
			95											
			96	**SILTY LEAN CLAY (CL),** as at 88 feet, stiff to very stiff.	CL									
			97											
CS	120 75.6		98	**SILTY LEAN CLAY WITH GRAVEL (CL),** 10% to 20% gravel, medium to high plasticity, 10YR 4/2 dark grayish brown, no odor, moist, very stiff to hard.				0						
			99											
			100											
			101		CL									
			102											
			103											
			104	**SILTY SAND WITH GRAVEL (SM),** poorly graded coarse sand, 10% to 30% fines, 20% to 30% gravel, sub-angular to sub-rounded, non-plastic, dark gray, no odor, moist to wet.										
			105											
			106		SM									
			107											
CS	120 12		108	**POORLY GRADED GRAVEL (GP),** poor recovery, gravel up to 4" diameter, angular to rounded, 10% to 15% coarse sand, trace to 5% fines, non-plastic, gray, no odor, wet, loose.				0						Pushed a rock with the sampler - poor recovery.
			109											
			110		GP									
			111											
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW05 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113		GP									
			114											
			115											
			116											
			117											
CS	120 90		118	**SILTY SAND (SM),** 40% to 50% fines, non-plastic to low plasticity, 10YR 4/2 dark grayish brown, no odor, moist to wet.				0						
			119											
			120											
			121		SM									
			122											
			123											
			124	**SILTY GRAVEL WITH SAND (GM),** 20% fines, 20% fine to coarse sand, non-plastic, no odor, wet, dense, coarsens downward.										
			125		GM									
			126	**DOLOMITE BEDROCK,** weathered and unweathered, microcrystalline, gray to grayish tan, matrix white, fractured.										
			127											
			128	**End of boring at 128.0 feet.**										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	1/17/2006		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW06	Feet MSL	799.0 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 326,094 N, 2,489,349 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 42		0–3	**LEAN CLAY WITH SAND (CL),** organics, moderate to low plasticity, 10YR 2/2 very dark brown, no odor, moist to wet, soft.	CL			0						
			3–8	**LEAN CLAY WITH SAND (CL),** trace organics, moderate to high plasticity, 2.5Y 4/3 olive brown, no odor, moist, soft. No recovery from 4 to 8 feet.	CL									
CS	120 144		8					0						
			9–10	**SILTY SAND (SM),** fine sand, 20% to 30% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist, dense.	SM									
			10–12	**CLAYEY SILT WITH SAND (ML),** 20% to 30% fine sand, moderate plasticity, 10YR 4/2 dark grayish brown, no odor, moist.	ML									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

1

Signature: Nathaniel R Keller

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: (608) 831-4444
Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW06 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13		ML									
			14											
			15	**SILTY SAND (SM),** fine sand, 20% to 30% fines, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet, medium dense.	SM									
			16											
			17	**CLAYEY SILT WITH SAND (ML),** as at 10 feet.	ML									
CS	120 162		18	**SILTY LEAN CLAY (CL),** trace sand, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, stiff.				0						
			19		CL									
			20											
			21	**INTERBEDDED SAND AND SILT (SP/ML),** 6" silt followed by 6" fine to medium sand with silt, and repeat, non-plastic, 10YR 4/2 dark grayish brown, no odor, moist to wet.	SP/ML									
			22											
			23	**SILTY LEAN CLAY (CL),** trace sand, very plastic, 10YR 4/3 brown, no odor, moist, very stiff.										
			24											
			25											
			26											
			27	Becomes siltier near base of interval, some silt seams in clay.	CL									
CS	120 54		28	Same as above (at 22.5 feet), sand content increases to 15%, poor recovery.				0						
			29											
			30											
			31										88	
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW06 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
CS	120 138		38	**SILTY LEAN CLAY (CL),** very plastic, 10YR 4/2 dark grayish brown, no odor, moist, stiff to very stiff.				0						
			39											
			40											
			41											
			42		CL									
			43											
			44											
			45											
			46											
			47											
CS	120 160.8		48	Same as above, trace coarse sand.				0						
			49											
			50											
			51										89	
			52											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW06 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
CS	120		58	Same as above.	CL			0						
			59											
			60											
			61											
			62											
			63											
			64	4" medium sand with silt at 64 feet.										
			65	**SILTY LEAN CLAY WITH SAND (CL),** 20% to 30% sand, medium plasticity, 10YR 4/2 dark grayish brown, no odor, moist, soft.	CL									
			66											
			67	**SILTY LEAN CLAY (CL),** as at 58 feet.										
			68											
CS	120 139.2		69	**SILTY LEAN CLAY (CL),** 10% gravel, very plastic, 10YR 4/2 dark grayish brown, no odor, moist, very stiff to hard.	CL			0						
			70											
			71										90	
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW06 Use only as an attachment to Form 4400-122. Page 5 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
CS	120 127.2		78	Same as above.				0						
			79		CL									
			80											
			81											
			82											
			83											
			84											
			85											
			86	**WELL GRADED GRAVEL WITH SAND (GW),** 30% to 40% coarse sand, 5% to 10% fines, non-plastic, gray, no odor, wet, dense.	GW									
			87											
CS	120 124.8		88	**POORLY GRADED SAND WITH SILT (SP-SM),** fine to medium sand, 10% fines, gravel appears near bottom of layer, non-plastic, 10YR 4/2 dark grayish brown, medium dense.	SP-SM			0						
			89											
			90	**SILTY SAND WITH GRAVEL (SM),** fine to medium sand, 40% to 50% fines, 20% to 30% gravel, non-plastic, 10YR 4/3 brown to 10YR 4/2 dark grayish brown, no odor, dry to moist, hard.	SM									
			91											
			92											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW06 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	120 102		93 94 95 96 97 98 99 100 101 102 103 104 105 106 107		SM			0						Very difficult drilling.
CS	66 72		108 109 110 111 112	**DOLOMITE BEDROCK,** weathered and unweathered, microcrystalline, fractured, light brown to gray, silty clay in fractures white, dense/hard.				0					92	

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

; Number MW06 Use only as an attachment to Form 4400-122. Page 7 of 7

ıple Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		113											
			End of boring at 113.5 feet.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW07

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Vince Layne Northwest	11/24/2005		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW07	Feet MSL	795.8 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 329,529 N, 2,489,265 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
CS	96 120		1	**SANDY CLAYEY SILT (ML),** trace gravel, 20% to 40% sand, low to moderate plasticity, 10YR 5/4 yellowish brown, some mottling present, wet.	ML			0						
			2	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 4/4 dark yellowish brown, mottling present, no odor, moist, very stiff.										
			3											
			4											p.p. = 3.0 tsf
			5		CL									
			6											
			7											p.p. = 3.5 tsf
CS	120 148.8		8	**SILTY LEAN CLAY WITH GRAVEL (CL),** 10% to 20% gravel, plastic to very plastic, 2.5Y 4/2 dark grayish brown, no odor, moist, stiff to very stiff.				0						
			9											
			10	2" silt seams at 10 feet and 13 feet.	CL									
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-4444 Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											p.p. = 2.0 tsf
			14											
			15											
			16											
			17											
CS	120 162		18	**SILTY LEAN CLAY WITH GRAVEL (CL)**, 10% to 20% gravel, plastic to very plastic, 2.5Y 4/2 dark grayish brown, no odor, moist, stiff to very stiff.				0						
			19											p.p. = 2.0 tsf
			20											
			21											
			22		CL									
			23											p.p. = 2.5 tsf
			24											
			25											
			26											
			27											
CS	120 168		28	Same as above.				0						
			29											p.p. = 3.0 tsf
			30											
			31									96		
			32											

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											p.p. = 2.5 tsf
			37											
CS	120 162		38	Same as above.				0						
			39											
			40		CL									
			41											
			42											
			43											
			44											
			45											
			46											
			47											
CS	120 132		48	Same as above.				0						
			49	**SILTY SAND (SM)**, fine sand, 40% to 50% fines, non-plastic, 2.5Y 4/2 dark grayish brown, no odor, moist.										
			50		SM									
			51										91	
			52											

Boring Number MW07 Use only as an attachment to Form 4400-122. Page 4 of 13

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53	**SILTY LEAN CLAY (CL),** as at 38 feet, but trace gravel.										
			54											
			55											
			56											
			57											
CS	120 132		58	Same as above.				0						
			59											
			60											
			61											
			62		CL									
			63											
			64											
			65											
			66											
			67											
CS	120 138		68	**SILTY LEAN CLAY (CL),** 5% to 15% gravel, plastic to very plastic, 2.5YR 4/2 dark grayish brown, no odor, moist, very stiff to hard.				0						p.p. = 4.0 tsf
			69											
			70											
			71									98		
			72											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73											p.p. = 3.5 tsf
			74											
			75											
			76											
			77											
CS	120 171		78	**SILTY LEAN CLAY (CL)**, as above, trace gravel, very plastic.				0						
			79											
			80											
			81											
			82		CL									
			83											
			84											
			85											
			86											
			87											
CS	120 180		88	Same as above.				0						
			89											
			90											
			91											99
			92											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
			95											
			96											
			97											
CS	120 160.8		98	Same as above.	CL			0						
			99											
			100											
			101											
			102											
			103	**CLAYEY SILT (ML)**, trace gravel, trace coarse sand, low plasticity to non-plastic, 2.5Y 4/2 dark grayish brown, no odor, moist.	ML									
			104											
			105											
			106	**SILTY LEAN CLAY (CL)**, as at 98 feet.	CL									
			107											
CS	120 122.4		108	Same as above.				0						
			109											
			110											
			111											100
			112											

State of Wisconsin
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW07 Use only as an attachment to Form 4400-122. Page 7 of 13

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113		CL									
			114	**SILTY SAND WITH GRAVEL (SM),** well graded sand, 40% to 50% fines, some clay, 10% to 20% gravel, non-plastic to slightly plastic, 2.5Y 4/2 dark grayish brown, no odor, wet.	SM									
			115	**SILTY LEAN CLAY (CL),** as at 106 feet.										
			116											
			117											
CS	120 124.8		118	Same as above.	CL			0						
			119											
			120											
			121											
			122	**SILTY SAND (SM),** 30% to 40% fines, non-plastic, 2.5YR 4/2 dark grayish brown, no odor, wet.	SM									
			123	**CLAYEY SILT (ML),** trace fine and, slight plasticity, 2.5Y 4/2 dark grayish brown, no odor, moist.	ML									
			124	**SILT WITH SAND (ML),** 10% to 20% fine sand, trace gravel, slight plasticity to non-plastic, 2.5Y 4/2 dark grayish brown, no odor, moist to wet.	ML									
			125											
			126	**SILTY LEAN CLAY (CL),** trace gravel, moderate plasticity, 10YR 4/2 dark grayish brown, no odor, moist.										
			127											
CS	120 108		128	**SILTY LEAN CLAY (CL),** trace gravel, plastic to very plastic, 10YR 4/3 brown, no odor, moist.	CL			0						
			129											
			130											
			131											
			132											

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Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
			134											
			135											
			136											
			137											
CS	120 157.2		138	Same as above, trace to no gravel.				0						
			139											
			140											
			141											
			142		CL									
			143											
			144											
			145											
			146											
			147											
CS	120 141		148	Same as above.				0						
			149											
			150											
			151											
			152											

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153											
			154											
			155											
			156											
			157											
CS	120 135		158	Same as above.				0						
			159											
			160											
			161											
			162		CL									
			163											
			164											
			165											
			166											
			167											
CS	120 112.8		168	**SILTY LEAN CLAY (CL),** very plastic, 10YR 4/3 brown, no odor, moist, soft to medium stiff.				0						p.p. = 1.0 tsf
			169											
			170											
			171											
			172											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			173											
			174											
			175											p.p. = 0.5 tsf
			176											
			177											
CS	120 147		178	Same as above.				0						
			179											
			180											
			181											
			182		CL									
			183	Two 1" fine sand with silt seams at 183 feet.										
			184											
			185											
			186											
			187											
CS	120 135		188	Same as above.				0						
			189											
			190											
			191											
			192											

Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			193		CL									
			194											
			195	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 20% coarse sand, trace gravel, moderate plasticity, 10YR 4/3 brown, moist.										
			196		CL									
			197											
CS	120 138		198	**SILTY LEAN CLAY (CL),** as at 195 feet, but trace coarse sand.				0						
			199											
			200											
			201											
			202											
			203											
			204											
			205		CL									
			206											
			207											
CS	120 96		208					0						
			209											
			210											
			211											
			212											

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Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			213		CL									
			214	**CLAYEY SILT WITH SAND (ML)**, 10% to 20% fine sand, slightly plastic, 10YR 5/3 brown, no odor, moist.	ML									
			215	**SANDY LEAN CLAY WITH GRAVEL (CL)**, 20% to 30% sand, 10% to 30% gravel, non-plastic to slightly plastic, 10YR 5/3 brown, no odor, moist to wet.	CL									
			216											
			217											
CS	120 122.4		218	**SILTY SAND WITH GRAVEL (SM)**, medium to coarse sand, 10% to 20% fines, 20% to 30% fine gravel, non-plastic, gray to 10YR 5/1 light gray, no odor, wet.	SM			0						
			219											
			220	**WELL GRADED GRAVEL (GW)**, 5% to 15% fines, trace coarse sand, gray, no odor, wet, coarsens downward.	GW									
			221											
			222	**SILTY SAND WITH GRAVEL (SM)**, fine to coarse sand, 20% to 30% fines, 20% to 30% fine to coarse gravel, non-plastic, 10YR 5/1 gray to 10YR 5/2 grayish brown, wet.	SM									
			223											
			224											
			225											
			226											
			227											
			228											
CS	120 102		229	**SILTY SAND (SM)**, 15% to 25% fines, trace to 10% gravel, non-plastic, 10YR 5/2 grayish brown, no odor, wet to moist.	SM			0						
			230											
			231											106
			232											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW07 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			233											
			234											
			235		SM									
			236											
			237											
CS	120 120		238	**SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 20% to 30% gravel and cobbles, non-plastic, 7.5YR 5/1 gray, no odor, dry to moist, hard.				0						p.p. > 4.5 tsf
			239											
			240											
			241											
			242											
			243		SM									
			244											
			245											
			246											
			247											
			248	**End of boring at 248.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW07S

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Matt Boart Longyear	4/17/2007	4/18/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW07S	Feet MSL	796.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 329,540 N, 2,489,265 E S/C/(N)
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 52		1	**SILTY LEAN CLAY (CL),** plastic, 10YR 2/1 very dark brown, no odor, moist, trace organics.				0.0						p.p. = 1.5 tsf
			2	Same as above, color change to 10YR 5/3 brown, some rust mottling.	CL			0.0						p.p. = 1.5 tsf
			3											p.p. = 4.5 tsf
			4	Same as above, trace gravel and fine to coarse sand, hard.				0.0						p.p. > 4.5 tsf
2 CS	60 60		5	**CLAYEY SILT (ML),** trace fine to medium gravel, low plasticity, 10YR 5/2 grayish brown, no odor, moist, hard.										
			6											
			7											
			8	Same as above.	ML									p.p. = 4.5 tsf
			9					0.0						
			10	*Same as above, very stiff.*										
3 CS	60 60			Same as above, stiff.										p.p. = 4.0 tsf
			11					0.0						p.p. = 2.0 tsf
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: 608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Boring Number MW07S Use only as an attachment to Form 4400-122. Page 2 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	**SILTY LEAN CLAY (CL),** plastic, 10YR 4/1 dark gray, no odor, moist, stiff to very stiff.				0.0						p.p. = 2.0 tsf
			14					0.0						p.p. = 1.5 tsf
4 CS	60 60		15	Same as above, trace fine to medium gravel, stiff.				0.0						
			16											
			17					0.0						p.p. = 1.5 tsf
			18											
			19					0.0						
5 CS	60 60		20	Same as above, wet.										p.p. = 1.
			21		CL			0.0						
			22											
			23					0.0						p.p. = 1.5 tsf
			24	Same as above.				0.0						p.p. = 1.5 tsf
6 CS	60 60		25	**SILTY LEAN CLAY (CL),** 10% to 15% fine to medium gravel, plastic, 10YR 4/1 dark gray, wet.										
			26											p.p. = 2.0 tsf
			27					0.0						
			28											
			29					0.0						p.p. = 1.5 tsf
7 CS	60 60		30	Same as above.										
			31	**CLAYEY SILT WITH SAND (ML),** fine sand, non-plastic, 10YR 4/1 dark	ML			0.0						p.p. = 1.5 tsf
			32											

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Boring Number MW07S Use only as an attachment to Form 4400-122. Page 3 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			32	gray, no odor, wet.										
			33	**SILTY LEAN CLAY (CL),** trace to 10% fine to coarse gravel, plastic, 10YR 4/1 dark gray, no odor, wet.				0.0						
			34											p.p. = 2.0 tsf
8 CS	60 60		35	Same as above.				0.0						p.p. = 2.5 tsf
			36	**SILTY LEAN CLAY (CL),** trace to 10% fine to medium gravel, plastic, 10YR 4/1 dark gray, no odor, wet, very stiff.				0.0						
			37											
			38					0.0						
			39											p.p. = 3.0 tsf
J CS	60 60		40					0.0						
			41		CL									
			42					0.0						p.p. = 2.5 tsf
			43											
			44	1" silt seam with trace coarse sand.				0.0						
10 CS	60 60		45					0.0						
			46	**SILTY LEAN CLAY (CL),** trace to 10% fine to medium gravel, plastic, 10YR 4/1 dark gray, no odor, wet, very stiff.										
			47					0.0						
			48	Same as above, grades to clayey silt, non-plastic to low plasticity.				0.0						
			49					0.0						
1 S	60 60		50	1" fine to medium sand with silt at 50 feet.				0.0						p.p. = 1.0 tsf
			51	**CLAYEY SILT (ML),** some clay, non-plastic, 10YR 4/1 dark gray, no odor,	CL-ML									
			52											

Boring Number MW07S Use only as an attachment to Form 4400-122. Page 4 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			52	wet, medium stiff.				0.0						p.p. = 1.0 tsf
			53											
			54	**CLAYEY SILT (ML)/SILTY LEAN CLAY (CL),** low plasticity, 10YR 4/2 dark grayish brown, no odor, wet, very stiff.				0.0						p.p. = 3.5 tsf
12 CS	60 60		55											
			56	Same as above.										
			57											
			58		CL-ML									
			59											
13 CS	60 60		60											
			61											
			62											
			63					0.0						
			64											
14 CS	180 120		65	**SILTY LEAN CLAY (CL),** with fine to coarse gravel.				0.0						
			66											
			67											
			68		CL									
			69											
			70	Same as above, trace to 10% fine to coarse gravel.				0.0						
			71											
			72											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW07S Use only as an attachment to Form 4400-122. Page 5 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73					0.0						
			74					0.0						
			75	Same as above.										
			76											
			77					0.0						
			78											
			79											
5 CS	60 60		80	Same as above.				0.0						
			81											
			82		CL									
			83					0.0						
			84											
16 CS	60 60		85	Same as above.				0.0						
			86	Same as above, 5 extra feet of core, all same as above.				0.0						
			87											
			88					0.0						
			89											
7 S	60 60		90	Same as above.										
			91											
			92											

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Boring Number MW07S Use only as an attachment to Form 4400-122. Page 6 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			92					0.0						
			93											
			94											
18 CS	60 60		95	Same as above.				0.0						
			96											
			97											
			98											
			99											
19 CS	60 60		100	Same as above.				0.0						
			101											
			102		CL			0.0						
			103											
			104					0.0						
20 CS	60 60		105	Same as above.				0.0						
			106											
			107											
			108					0.0						
			109					0.0						
21 CS	60 60		110	Same as above.										
			111					0.0						
			112											

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Boring Number MW07S Use only as an attachment to Form 4400-122. Page 7 of 7

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113	Same as above.				0.0						
			114					0.0						
22 CS	60 60		115	Same as above.										
			116		CL			0.0						
			117											
			118					0.0						
			119					0.0						
			120	**End of boring at 120.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW08A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Oiden Gonzalez Boart Longyear	5/8/2007	5/9/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW08A	Feet MSL	835.9 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 332,071 N, 2,490,625 E S/C/(N)
1/4 of 1/4 of Section , T N. R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 42		1	**TOPSOIL,** clayey silt to silty lean clay, trace fine sand, 10YR 2/2 very dark brown, no odor, wet.	CL-ML			ND						p.p. = 2.5 to 3.5 tsf
			2											
			3	**SILTY LEAN CLAY WITH SAND (CL),** 15% to 20% fine to coarse sand, trace to 5% fine gravel, 10YR 4/3 brown, mottled with light and dark gray, no odor, moist.				ND						p.p. = 4.5 tsf
			4											
2 CS	36 48		5	Same as above.										
			6											
			7		CL			ND						p.p. > 4.5 tsf
3 CS	84 48		8	Same as above.										
			9											
			10					ND						p.p. > 4.5 tsf
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-831-4444
for M. Oesterreich	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Boring Number MW08A Use only as an attachment to Form 4400-122. Page 2 of 6

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13					ND						p.p. > 4.5 tsf
			14											
4 CS	240 240		15	Same as above, 10YR 5/2 grayish brown, grading to 10YR 5/1 gray.				ND						p.p. = 1.0 to 2.0 tsf
			16											
			17		CL									
			18											
			19					ND						p.p. = 1.0 to 2.0 tsf
			20											
			21					ND						p.p. = 1.0 to 2.0 tsf
			22											
			23	**SANDY LEAN CLAY (CL),** 25% to 35% fine to coarse sand, trace fine gravel, very plastic, 10YR 5/1 gray, no odor, moist.				ND						Gradational contact. p.p. < 0.5 tsf
			24											
			25	Same as above.				ND						p.p. < 0.5 tsf
			26		CL									
			27											
			28					ND						p.p. < 0.5 tsf
			29											
			30	**SILTY LEAN CLAY WITH SAND (CL),** as at 2 feet, but 10YR 5/1 gray.										
			31		CL			ND						p.p. = 1.0 to 2.0 tsf
			32											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW08A — Use only as an attachment to Form 4400-122. —

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			32					ND						p.p. = 1.0 to 2.0 tsf
			33					ND						p.p. = 1.0 to 2.0 tsf
			34											
5 CS	240 210		35	Same as above, 5% to 15% fine to coarse sand (variable), trace fine gravel.										
			36					ND						p.p. = 1.0 to 2.0 tsf
			37											
			38					ND						p.p. = 1.0 to 2.0 tsf
			39											
			40					ND						p.p. = 1.0 to 2.0 tsf
			41		CL									
			42					ND						p.p. = 1.0 to 2.0 tsf
			43											
			44					ND						p.p. = 1.0 to 2.0 tsf
			45											
			46					ND						p.p. = 1.0 to 2.0 tsf
			47											
			48					ND						p.p. = 1.0 to 2.0 tsf
			49											
			50					ND						
			51	2" Sandy silt above sand. **WELL GRADED SAND (SW),** fine to coarse sand, mostly medium sand, trace	SW									Only recovered approximately
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW08A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53	fine gravel, non-plastic, 10YR 5/2 grayish brown, no odor, wet, occasional balls of silty sand (30% to 35% fines), probably a small seam chopped up by drilling. Only approximately 1.5 feet recovered in	SW			ND						1.5 feet of sand.
			54	sand.				ND						
6 CS	120 120		55	**SILTY LEAN CLAY (CL),** no sand, no gravel, plastic, 10YR 5/2 grayish brown,										
			56	no odor, moist.				ND						p.p. = 2.5 to 3.5 tsf
			57	Sandy lean clay seam (< 1" thick) at 57 feet.										
			58					ND						p.p. = 1.5 to 2.5 tsf
			59											
			60		CL			ND						p.p. = 1.5 to 2.5 tsf
			61											
			62					ND						p.p. = 1.5 to 2.5 tsf
			63											
			64	Silty seams in clay (approximately 2" zone).				ND						p.p. = 1.5 to 2.5 tsf
7 CS	120 108		65	**CLAYEY SAND (SC),** 10% to 15% gravel and cobbles, 35% to 45% fines,										
			66	slightly plastic to plastic, 10YR 5/2 grayish brown, wet.				ND						
			67		SC									
			68	**SILTY LEAN CLAY (CL),** as at 35 feet, 5% to 15% fine to coarse sand, trace fine				ND						p.p. = 3.5 to 4.5 tsf
			69	gravel, plastic, 10YR 5/2 grayish brown, grading to 10YR 5/3 brown.	CL									
			70	**CLAYEY SAND (SC),** 35% to 45% fines, as above at *65 feet, but 10YR 5/3* brown.	SC			ND						
			71	**WELL GRADED SAND (SW),** fine to coarse sand, mostly coarse sand, 10% to	SW									
			72											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW08A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73	15% fine to medium gravel, non-plastic, 10YR 5/3 brown, no odor, wet. Fines downward. Becomes mostly fine to medium sand.				ND						
			74											
			75					ND						
8 CS	120 72		76	**WELL GRADED SAND (SW),** as at 70.5 feet, fine to coarse sand, mostly coarse sand, but trace to 10% fines, 10% to 15% fine gravel, 10YR 5/2 grayish brown.	SW									
			77					ND						
			78											
			79					ND						
			80	**SILTY SAND (SM),** 35% to 45% fines, 10% to 15% fine to coarse gravel, cohesive, but non-plastic, 10YR 5/2 grayish brown, no odor, moist, hard.										
			81					ND						
			82											
			83					ND						
			84											
9 CS	120 120		85	Same as above.	SM			ND						
			86											
			87					ND						
			88											
			89					ND						
			90											
			91					ND						
			92											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW08A Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			93		SM			ND						
			94					ND						
			95	**End of boring at 95.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW09

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear	5/9/2007	5/16/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW09	Feet MSL	810.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 331,365 N, 2,491,968 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ___° ___' ___"
Long ___° ___' ___"
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 60			**SILTY LEAN CLAY WITH SAND (CL),** and organics, plastic, 10YR 2/2 very dark brown, no odor, wet.	CL									
			1	**SILT WITH CLAY (ML),** trace sand and gravel, low plasticity, 10YR 4/4 dark yellowish brown, some light gray mottling, no odor, moist.				0.0						
			2					0.0						p.p. = 1.5 tsf
			3											
			4		ML									p.p. > 4.5 tsf
2 CS	120 120		5											
			6					0.0						p.p. > 4.5 tsf
			7											
			8	**SILTY LEAN CLAY (CL),** trace sand and gravel, 10YR 5/1 gray, no odor, moist, stiff to very stiff.										p.p. > 4.5 tsf
			9											
			10		CL			0.0						p.p. = 2.5 tsf
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
[signature]	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

WDNR_SBL_98 07133W.GPJ WI_DNR98.GDT 6/21/07

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW09 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13					0.0						p.p. = 2.0 tsf
			14											p.p. = 1.0 tsf
3 CS	120 120		15	Same as above.										
			16					0.0						p.p. = 2.5 tsf
			17											
			18											
			19											
			20					0.0						p.p. = 2.0 tsf
			21											
			22		CL									
			23											
			24					0.0						p.p. = 2.5 tsf
4 CS	120 120		25	Same as above, sand and gravel content decreases with depth.				0.0						
			26					0.3						p.p. = 1.0 tsf
			27											
			28											
			29											
			30											
			31											
			32											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW09 *Use only as an attachment to Form 4400-122.* Page 3 of 6

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33					0.2						
			34					0.1						p.p. = 1.0 tsf
5 CS	120 120		35	Same as above, no gravel, stiff.										
			36											
			37											
			38											
			39											
			40											
			41											
			42		CL			0.3						p.p. = 0.75 tsf
			43											
			44											
6 CS	120 120		45	Same as above.										
			46					0.1						p.p. = 1.0 tsf
			47											
			48	Same as above.										
			49											
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW09 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											p.p. = 2.0 to 3.0 tsf
			54	Same as above, but siltier, trace gravel.										
7 CS	120 60		55	Same as above.										
			56		CL			0.0						p.p. = 1.5 tsf
			57											
			58											
			59											
			60	**SILTY GRAVEL WITH SAND (GM),** well graded gravel, mostly coarse sand, trace cobbles, 10% to 20% fines, non-plastic, 10YR 5/1 gray, no odor, wet.				0.0						
			61											
			62		GM									
			63											
			64											
			65											
8 CS	120 84		66	**WELL GRADED GRAVEL WITH SAND (GW),** 5% to 10% fines, fine to coarse sand, non-plastic, 10YR 5/1 gray, no odor, wet.				0.0						
			67											
			68		GW									
			69											
			70											
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW09 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73	**SILTY GRAVEL (GM),** 30% fines, non-plastic, 10YR 6/1, no odor, wet.	GM			0.0						p.p. = 3.5 tsf Gradational contact.
			74	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, no odor, wet.	CL			0.0						
9 CS	120 120		75											
			76	**SILTY SAND (SM),** poorly graded fine sand, 30% fines, non-plastic, 10YR 5/1 gray, no odor, wet.	SM									
			77											
			78	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, no odor, wet.	CL			0.0						
			79											
			80	**POORLY GRADED SAND (SP/SM),** fine to medium sand, 5% to 10% silt, non-plastic, 10YR 5/1 gray, no odor, wet.	SP-SM									
			81											
			82					0.0						p.p. = 2.5 tsf
			83	**SILTY SAND (SM),** very fine to fine sand, 30% fines, non-plastic, 10YR 5/1 gray, no odor, wet.	SM									
			84	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 5/1 gray, no odor, wet, very stiff.	CL			0.0						
10 CS	120 120		85	**SILTY SAND (SM),** fine to medium sand, 30% fines, 10% to 15% gravel, non-plastic, 10YR 4/2 dark grayish brown, no odor, wet.	SM									
			86					0.0						
			87	**SILTY LEAN CLAY (CL),** trace sand and gravel, plastic, 10YR 4/2 dark grayish brown, no odor, wet, hard.	CL									
			88											
			89											
			90					0.0						p.p. = 4.0 tsf
			91											
			92											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW09 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			93	**POORLY GRADED SAND (SP/SM),** 5% to 10% fines, trace fine gravel and coarse sand, non-plastic, 10YR 5/1 gray, no odor, wet.	SP-SM			0.0						
			94											
			95	**End of boring at 95.0 feet.**										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Oiden Gonzalez Boart Longyear	5/7/2007	5/7/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW10	Feet MSL	812.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 329,954 N, 2,491,918 E S/C/(N)
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1–12	Blind drilled to 105 feet. See boring log for MW10A for detailed soil descriptions.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-831-4444
Mohamed R Kelly	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			73											
			74											
			75											
			76											
			77											
			78											
			79											
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											
			94											
			95											
			96											
			97											
			98											
			99											
			100											
			101											
			102											
			103											
			104											
1 CS	240 144		105	No recovery from approximately 105 to 113 feet. Soil assumed to be silty lean clay (CL) as described at boring MW10A.										
			106											
			107											
			108											
			109											
			110											
			111											
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113	**SILTY SAND (SM),** 30% fines, non-plastic, 10YR 5/2 grayish brown, no odor, wet.	SM									
			114	**SILTY SANDY LEAN CLAY (CL),** 20% to 30% fine sand, plastic, 10YR 5/2 grayish brown, no odor, wet, sloppy.	CL			ND						
			115											
			116	**WELL GRADED SAND (SW),** mostly fine to medium sand, trace to 5% fines, trace to 5% fine gravel, non-plastic, 10YR 5/2 grayish brown, 3 broken rock and gravel at base of unit.	SW			ND						
			117											
			118	**SILTY LEAN CLAY (CL),** trace fine sand, plastic, 10YR 5/2 grayish brown.	CL			ND						
			119	**WELL GRADED SAND (SW),** fine to coarse sand, trace fines, non-plastic, 10YR 5/2 grayish brown, no odor, wet.										
			120					ND						
			121											
			122					ND						
			123											
			124					ND						
2 CS	240 240		125	Last 2" to 3" of core mostly coarse sand (rounded), big cobble in base of core barrel (driller notes that they struck the cobble at the end of the run).	SW									
			126	Same as above, fine to coarse sand, mostly medium to coarse sand, 5% fine gravel (rounded).				ND						
			127											
			128	Same as above.				ND						
			129											
			130					ND						
			131											
			132	**WELL GRADED GRAVEL WITH**	GW									

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10 Use only as an attachment to Form 4400-122. Page 8 of 8

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133	**SAND (GW),** 30% to 35% medium to coarse sand, trace fines, non-plastic, 10YR 5/2 grayish brown, no odor, wet.	GW			ND						
			134	**WELL GRADED SAND (SW),** as at 125 feet, but 5% to 10% fine to medium gravel (rounded).				ND						
			135											
			136					ND						
			137	Same as above, but 5% to 15% fine to medium gravel.										
			138					ND						
			139		SW									
			140					ND						
			141											
			142					ND						
			143											
			144					ND						
			145	Silty zone (approximately 1" to 2" thick) at base of core (5% to 10% silt, plus 1 silty lump).										
				End of boring at 145.0 feet.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW10A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Oiden Gonzalez Boart Longyear	4/21/2007	5/6/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW10A	Feet MSL	812.2 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 329,944 N, 2,491,920 E S/C/N
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E
1/4 of 1/4 of Section , T N, R Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 60		1	**LEAN CLAY WITH GRAVEL AND SILT (CL),** organic material, low plasticity, 10YR 3/2 dark grayish brown, no odor, wet, soft. (Fill)	CL			0						p.p. = 0.25 tsf
			2	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 20% fine sand, trace fine gravel, moderate plasticity, 10YR 4/3 brown, no odor, slightly moist, medium stiff.										
			3											
			4											
2 CS	120 120		5					0						p.p. = 0.5 to 1.0 tsf
			6		CL									
			7											
			8	Color grades to 7.5Y 5/1 gray.										
			9					0						p.p. = 0.5 tsf
			10	**SILTY LEAN CLAY (CL),** trace sand, plastic to very plastic, 2.5Y 5/1 gray, slightly moist, increasing stiffness with depth to stiff.										p.p. = 0.5 tsf
			11		CL									
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-831-4444
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW10A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13		CL			0						p.p. = 1.0 to 1.5 tsf
			14					0						p.p. < 0.25 tsf
3 CS	120 120		15	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 25% fine sand, plastic, 10YR 5/2 grayish brown with some 2.5Y 5/1 gray, no odor, moist, soft.										
			16					0						
			17											
			18					0						
			19		CL									
			20	Color grades to 2.5Y 5/1 gray.				0						
			21											
			22					0						p.p. = 0.5 to 1.0 tsf
			23	**SILTY LEAN CLAY (CL),** trace sand, trace fine to medium gravel, increasing stiffness to medium stiff.										
			24					0						p.p. = 1.0 tsf
4 CS	120 120		25	Same as above.										
			26					0						p.p. = 1.0 tsf
			27		CL									
			28					0						p.p. = 1.5 tsf
			29	Increasing stiffness with depth.										
			30	Gravel size increasing to medium to coarse with depth (still approximately 5%).				0						p.p. = 1.5 tsf
			31											
			32											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33		CL			0						p.p. = 2.5 tsf
			34					0						p.p. = 3.0 tsf
5 CS	240 240		35	**WELL GRADED SAND (SW/SM),** fine to coarse sand, 5% to 15% gravel, 5% to 10% clay and silt, 2.5Y 5/1 gray, no odor, wet, loose to medium dense,	SW-SM									
			36	**SILTY CLAYEY FINE SAND (SC-SM),** 20% to 40% fine soil (silt and clay), 2.5Y 5/1 gray, no odor, moist, medium dense.	SC-SM			0						p.p. = 2.0 tsf
			37											
			38	**SILTY LEAN CLAY (CL),** 5% to 10% fine sand, trace fine gravel, moderately plastic to plastic, 2.5Y 5/1 gray, no odor, slightly moist, stiff.				0						p.p. = 1.0 to 1.5 tsf
			39											
			40					0						p.p. = 1.0 to 1.5 tsf
			41											
			42					0						p.p. = 1.0 to 1.5 tsf
			43											
			44		CL			0						p.p. = 1.0 to 1.5 tsf
			45	Same as above.										
			46					0						p.p. = 1.0 to 1.5 tsf
			47											
			48					0						p.p. = 1.0 to 1.5 tsf
			49											
			50	Same as above.										
			51											
			52											

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Boring Number MW10A Use only as an attachment to Form 4400-122.

Sample										Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
6 CS	240 240		53	Same as above, but no gravel, plastic to very plastic, 10YR 5/1 gray.	CL			0						p.p. = 1.0 to 1.5 tsf
			54					0						p.p. = 1.0 to 1.5 tsf
			55											
			56					0						p.p. = 1.0 to 1.5 tsf
			57											
			58					0						p.p. = 1.0 to 1.5 tsf
			59											
			60					0						p.p. = 1.0 to 1.5 tsf
			61											
			62					0						p.p. = 1.0 to 1.5 tsf
			63											
			64					0						p.p. = 1.0 to 1.5 tsf
			65											
			66					0						p.p. = 1.0 to 1.5 tsf
			67											
			68					0						p.p. = 1.0 to 1.5 tsf
			69											
			70					0						p.p. = 1.0 to 1.5 tsf
			71											
			72											

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Form 4400-122A

Boring Number MW10A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73		CL			0						p.p. = 1.5 tsf
			74	**CLAYEY SANDY GRAVEL (GC),** 15% to 30% clay, mostly angular gravel with some rounded gravel, 10YR 5/1 gray, no odor, wet, loose to medium dense.				0						
7 CS	120 95		75											
			76		GC			0						
			77											
			78	**SILTY LEAN CLAY (CL),** 10% to 15% medium gravel, trace sand, plastic to very plastic, 10YR 5/1 gray, no odor, slightly moist, stiff.				0						p.p. = 1.5 tsf
			79											
			80					0						p.p. = 1.5 tsf
			81											
			82					0						p.p. = 1.5 tsf
			83											
			84					0						p.p. = 1.0 to 1.5 tsf
8 CS	120 120		85	Same as above, but trace gravel, medium stiff to stiff.	CL									
			86					0						p.p. = 1.0 to 1.5 tsf
			87											
			88					0						p.p. = 1.0 to 1.5 tsf
			89											
			90					0						p.p. = 1.0 to 1.5 tsf
			91											
			92											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93					0						p p = 1.0 to 1.5 tsf
			94					0						p.p. = 1.0 to 1.5 tsf
9 CS	120 120		95	Same as above.										
			96					0						p.p. = 1.0 to 1.5 tsf
			97											
			98					0						p.p. = 1.0 to 1.5 tsf
			99											
			100	Same as above.				0						p.p. = 1.0 to 1.5 tsf
			101											
			102		CL			0						p.p. = 1.0 to 1.5 tsf
			103											
			104					0						p.p. = 2.0 tsf
10 CS	180 180		105	Same as above, but plastic, 10YR 5/2 grayish brown, very stiff, red sandstone gravel pieces found in core at approximately107 feet.										
			106					0						p.p. = 3.0 tsf
			107											
			108					0						p.p. = 3.0 tsf
			109											
			110					0						p.p. = 3.0 tsf
			111											
			112											

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			113					0						p.p. = 3.0 tsf
			114		CL			0						p.p. = 3.0 tsf
			115											200 gallons water added during this interval (115 to 125 feet).
			116	**CLAYEY SILTY SAND (SC-SM),** fine sand, 40% silt and clay, 10YR 5/2 grayish brown, no odor, wet, loose to medium dense.				0						p.p. = 3.0 tsf
			117											
			118		SC-SM			0						p.p. = 3.0 tsf
			119											
11 CS	180 180		120	**WELL GRADED SAND (SW),** fine to medium sand, trace silt, trace fine to medium gravel (well rounded), 10YR 5/2 grayish brown, no odor, wet, loose.				0						
			121											
			122					0						
			123											
			124					0						
			125	Same as above, but fine to coarse sand, trace fine to medium gravel and silt.										
			126		SW			0						
			127											
			128	Increasing gravel with depth.				0						
			129											
			130					0						
			131											
			132											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133	Same as above, but 5% to 10% fine to coarse gravel (well rounded).				0						
			134					0						
12 CS	240 240		135	Same as above, but trace fine to coarse gravel.										100 gallons water added between 135 and 145 feet.
			136					0						
			137											
			138					0						
			139											
			140	Fine to medium sand below 140 feet, with trace fine to medium gravel.				0						
			141		SW									
			142					0						
			143											
			144	Fine to coarse sand and fine to coarse gravel, with intermittent silt and clay layers (2 to 3 thick).				0						
			145											
			146	Increasing silt and clay with depth.				0						
			147											
			148					0						
			149											
			150	**SILTY LEAN CLAY (CL),** trace fine to coarse sand and fine gravel, plastic, 10YR 5/2 grayish brown, no odor, slightly moist, very stiff.	CL			0						p.p. = 2.5 to 3.0 tsf
			151											
			152											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153		CL			0						p.p. = 3.0 tsf
			154	**POORLY GRADED GRAVEL WITH SAND (GP),** lense between 154 and 154.5 feet, 5% to 20% silt and sand, wet.	GP			0						p.p. = 3.0 tsf
13 CS	120 120		155	**SILTY LEAN CLAY (CL),** trace fine to medium sand and fine gravel, plastic, 10YR 5/1 gray, no odor, slightly moist, very stiff.										
			156					0						p.p. = 3.0 tsf
			157											
			158		CL			0						p.p. = 3.0 tsf
			159											
			160					0						p.p. = 3.0 tsf
			161											
			162	**SILTY SAND (SM),** very fine sand, 20% to 40% silt, 10YR 5/1 gray, no odor, moist.	SM			0						p.p. = 3.0 tsf
			163	**SILTY LEAN CLAY (CL),** trace fine to medium sand and fine gravel, plastic, 10YR 5/1 gray, no odor, slightly moist, very stiff.										
			164					0						p.p. = 3.0 tsf
14 CS	240 240		165	Same as above, silty lean clay with trace fine sand, plastic, 10YR 5/1 gray, no odor, moist.	CL									
			166					0						
			167											
			168	**POORLY GRADED SAND (SP),** fine to medium sand, 5% to 10% silt and clay, non-plastic, 10YR 5/1 gray, no odor, wet, 3" clay seam at 168.2 feet.	SP			0						
			169											
			170	**SILTY LEAN CLAY (CL),** with trace fine sand, plastic, 10YR 5/1 gray, no odor, moist.	CL			0						
			171	**POORLY GRADED SAND (SP),** as at 168 feet.	SP									
			172											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			173	3" lean clay seams at approximatley 171.3 feet and 174.5 feet. Occasional clay seams (approximately 1" thick).	SP			0						
			174					0						
			175	**SILTY LEAN CLAY (CL),**trace fine sand, plastic, 10YR 5/1 gray, no odor, moist. Faint horizontal layering apparent on broken core (varves or drilling artifact?), one piece has reddish gray/gray layering apparent.										
			176					0						p.p. = 1.5 to 2.0 tsf
			177											
			178					0						p.p. = 1.5 to 2.0 tsf
			179											
			180					0						p.p. = 2.0 to 2.5 tsf
			181											
			182		CL			0						p.p. = 2.0 to 2.5 tsf
			183											
			184					0						p.p. = 2.0 to 2.5 tsf
15 CS	120 120		185	Same as above.										
			186					0						p.p. = 2.0 to 2.5 tsf
			187											
			188					0						
			189	**SILTY CLAYEY SAND (SC-SM),**30% to 40% fines (variable), 5% fine to medium gravel, slightly plastic to plastic, 10YR 5/1 gray, no odor, wet.										
			190	Gravel content decreases with depth (no gravel apparent below approximately 190 feet), generally fining downward.	SC-SM			0						
			191											
			192											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			193	**SILTY LEAN CLAY (CL),** 5% to 10% fine to coarse sand, trace gravel, 10YR 5/1 gray, no odor, moist.	CL			0						
			194	**SILTY SAND (SM),** 35% to 45% fines, very fine sand, trace fine gravel, non-plastic to slightly plastic, 10YR 5/1 gray, no odor, moist to wet.	SM			0						
16 CS	120 108		195	**POORLY GRADED SAND WITH SILT (SP-SM),** approximately 10% to 15% fines, mostly fine sand, trace fine gravel, non-plastic, 10YR 5/1 gray, no odor, wet.										
			196					0						
			197											
			198		SP-SM			0						
			199											
			200					0						
			201	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM),** approximately 10% fines, 10% to 20% fine to coarse gravel (rounded), non-plastic, 10YR 5/1 gray, no odor, wet.										
			202		SP-SM			0						
			203											
			204	**SILTY SAND (SM),** 35% to 45% fines, 10% to 15% gravel and cobbles, slightly plastic to plastic, 10YR 5/2 grayish brown, no odor, wet.				0						Gradational contact.
17 CS	120 120		205	At 205 feet, same as above, but 30% to 35% fines, 15% to 20% fine to coarse gravel and cobbles, wet.										
			206					0						
			207	At 207 feet, same as above, 35% to 45% fines, 15% to 25% fine to coarse gravel and cobbles, wet.	SM									
			208					0						
			209	Same as above, 5% to 10% gravel and cobbles.										
			210					0						
			211	**WELL GRADED SAND (SW/SM),** fine to coarse sand, 5% to 10% fines, trace fine	SW-SM									
			212											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			213	gravel, non-plastic, 10YR 5/2 grayish brown, no odor, wet.	SW-SM			0						
			214	**SILTY SAND (SM),** fine sand, 20% to 30% fines, trace coarse sand and fine gravel (rounded), non-plastic, 10YR 5/2 grayish brown, no odor, moist.				0						
18 CS	120 120		215	Same as above.	SM									
			216					0						
			217											
			218	**WELL GRADED SAND WITH GRAVEL (SW),** fine to coarse sand, mostly coarse sand, 20% to 30% fine to coarse gravel and cobbles, non-plastic, 10YR 5/2 grayish brown, no odor, wet, gravel is a mix of rounded and broken pieces.				0						
			219											
			220					0						
			221											
			222					0						
			223											
			224		SW			0						
19 CS	120 120		225											
			226					0						
			227											
			228					0						
			229											
			230					0						
			231	**SILTY SAND WITH GRAVEL (SM),** 30% to 40% fines, 10% to 20% fine to	SM									
			232											

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			233	coarse gravel, cohesive, but non-plastic to slightly plastic, 10YR 5/2 grayish brown, no odor, dry to moist, hard.				0						p.p. > 4.5 tsf
			234					0						p.p. > 4.5 tsf
20 CS	36 36		235	Same as above, very hard drilling, only 3 foot core attempted.	SM									
			236					0						
			237					0						
			238	**End of boring at 238.0 feet.**										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW11A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear	4/17/2007	4/19/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW11A	Feet MSL	796.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,999 N, 2,491,991 E S/C/⊘
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 30		1	**SANDY LEAN CLAY (CL),** with silt and organic material, low plasticity, 10YR 4/3 brown, no odor, slightly moist, stiff.	CL			< 2						p.p. = 1.5 tsf
			2					< 2						Decreasing sand content below 2 feet; gradational contact. p.p. = 0.5 to 1.0 tsf
			3	**SILTY LEAN CLAY (CL),** trace sand and trace gravel, very plastic, 10YR 5/4 yellowish brown, soft to medium stiff.										
			4											
			5											
2 CS	120 65		6	Same as above, but no sand or gravel, very plastic, 10YR 5/4 yellowish brown, slightly moist, soft to medium stiff.				< 2						p.p. = 0.5 tsf
			7		CL			< 2						p.p. = 0.5 tsf
			8											
			9					< 2						p.p. = 0.75 tsf
			10											
			11					< 2						p.p. = 0.75 tsf
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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			13					< 2						p.p. = 0.75 tsf
			14	Same as above, but high plasticity, very stiff.										
3 CS	120 120		15	Color change to 7.5Y 5/1 gray at 14.8 feet.				< 2						p.p. = 0.25 tsf
			16											
			17					< 2						p.p. = 0.25 tsf
			18											
			19					< 2						p.p. = 0.25 tsf
			20											
			21					< 2						p.p. = 0.5 tsf
			22	Soft below 22 feet.	CL									
			23					< 2						p.p. = 0.5 tsf
			24											
4 CS	120 120		25	Same as above.				< 2						p.p. = 0.5 tsf
			26	Sand increasing with depth below 28 feet to approximately 10% to 20% fine sand - Lean Clay with Sand (CL).										
			27					< 2						p.p. = 0.5 tsf
			28											
			29					< 2						p.p. = 0.5 tsf
			30											
			31					< 2						p.p. = 0.5 tsf
			32											

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			33		CL			< 2						p.p. = 0.5 tsf
			34	**SANDY LEAN CLAY (CL),** increase in sand to 30% to 40% fine to medium sand, 5% to 10% fine gravel.	CL									
					SC									
5 CS	120 120		35	**CLAYEY SAND (SC),** 15% to 40% clay and silt, 5% to 10% fine to coarse gravel, 2.5Y 5/1 gray, no odor, wet, loose.				< 2						p.p. = 0.5 tsf
			36	**LEAN CLAY WITH SAND (CL),** 10% to 20% sand, plastic, 2.5Y 5/1 gray, no odor, moist, soft.	CL			< 2						
			37											
			38	**CLAYEY SAND (SC),** 15% to 40% clay, trace fine gravel, 7.5Y 5/1 gray, no odor, wet, loose.	SC			< 2						
			39	**LEAN CLAY WITH SAND (CL),** as at 35 feet.	CL									
			40	**SILTY LEAN CLAY (CL),** trace fine to coarse gravel, medium plasticity, 2.5Y 5/1 gray, no odor, slightly moist, very stiff to hard.				< 2						p.p. > 4.0 tsf
			41											
			42					< 2						p.p. > 4.0 tsf
			43											
			44					< 2						p.p. = 0.5 tsf
6 CS	60 60		45	Same as above, but trace fine to coarse sand, trace fine to medium gravel, very plastic, medium stiff to stiff.										
			46		CL			< 2						p.p. = 0.5 tsf
			47	Increasing stiffness with depth.										
			48					< 2						p.p. = 1.0 tsf
			49											
7 CS	60 60		50	Same as above, but with alternating layers of medium stiff to stiff.				< 2						p.p. = 0.5 to 1.0 tsf
			51											
			52											

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			52					< 2						p.p. = 0.5 to 1.0 tsf
			53											
			54	Increasing sand with depth.	CL			< 2						p.p. = 0.5 to 1.0 tsf
8 CS	120 120		55											
			56					< 2						p.p. = 1.0 tsf
			57	**SILTY SAND (SM),** fine to medium sand, 15% to 25% silt, 10YR 5/1 gray, no odor, moist, medium dense.	SM									
			58					< 2						
			59	**SILTY LEAN CLAY WITH SAND (CL),** 10% to 25% fine sand, plastic, 10YR 5/1 gray, no odor, slightly moist, stiff.										p.p. = 1.0 to 2.5 tsf
			60	Same as above, but increasing stiffness with depth, trace fine sand.				< 2						p.p. = 1.0 to 1.5 tsf
			61		CL									
			62											
			63					< 2						p.p. = 1.0 to 1.5 tsf
			64	2" silty sand zone from 64.2 to 64.4 feet bgs.										
9 CS	240 240		65	**SILTY LEAN CLAY (CL),** plastic to very plastic, 10YR 5/1 gray, no odor, slightly moist, stiff.				< 2						
			66											p.p. = 1.0 to 1.5 tsf
			67											
			68		CL			< 2						
			69											p.p. = 1.0 to 1.5 tsf
			70	Same as above.										
			71					< 2						
			72											

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			73					< 2						p.p. = 1.0 to 1.5 tsf
			74	*Same as above.*										
			75											
			76					< 2						
			77											p.p. = 1.0 to 1.5 tsf
			78											
			79					< 2						
			80	Same as above.	CL									
			81											p.p. = 1.0 to 2.0 tsf
			82					< 2						
			83											
			84					< 2						
10 CS	240 240		85	Same as above, very plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff to very stiff.										
			86					< 2						p.p. = 1.5 to 2.0 tsf
			87											
			88					< 2						
			89	**POORLY GRADED SAND (SP)**,10YR 5/2 grayish brown, no odor, moist, loose.	SP									p.p. = 1.5 to 2.0 tsf
			90	**SILTY LEAN CLAY (CL)**,plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff to very stiff.	CL									
			91					< 2						
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93											p.p. = 2.0 to 3.0 tsf
			94					< 2						
			95		CL									p.p. = 1.0 to 2.5 tsf
			96											
			97					< 2						p.p. = 2.0 to 3.0 tsf
			98	**POORLY GRADED SAND WITH SILT (SM),** fine to medium sand, 10% to 15% silt, 10YR 5/2 grayish brown, no odor, moist, loose.	SM									
			99					< 2						
			100	**SILTY LEAN CLAY (CL),** trace gravel, moderate plasticity, 10YR 5/2 grayish brown, no odor, moist, very stiff to hard.										
			101		CL			< 2						p.p. = 3.0 to 4.0 tsf
			102	Increasing gravel with depth.										
			103					< 2						p.p. = 4.0 tsf
			104											
11 CS	240 240		105	**SANDY LEAN CLAY WITH SILT (CL),** 20% to 40% sand, 5% to 10% fine to coarse gravel, 10YR 5/2 grayish brown, no odor, wet, soft to stiff.				< 2						p.p. = 0.25 to 1.0 tsf
			106											
			107					< 2						p.p. = 0.25 to 1.0 tsf
			108		CL			< 2						p.p. = 0.25 to 1.0 tsf
			109											
			110					< 2						
			111											
			112											

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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113	**SILTY LEAN CLAY (CL),** trace medium sand, trace fine gravel, very plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff.				< 2						p.p. = 1.5 to 2.0 tsf
			114											
			115					< 2						p.p. = 1.5 to 2.0 tsf
			116											
			117											
			118					< 2						p.p. = 1.5 to 2.0 tsf
			119		CL									
			120	Same as above.				< 2						p.p. = 1.5 to 2.0 tsf
			121											
			122											
			123					< 2						p.p. = 1.5 to 2.0 tsf
			124											
12 CS	240 240		125	3" rock found at approximately 125 feet.										
			126					< 2						
			127	**POORLY GRADED SAND WITH SILT (SP-SM),** fine sand, 10% to 15% silt, 10YR 5/2 grayish brown, no odor, moist, loose to medium dense.	SP-SM									Formation taking water while drilling. Likely attributable to SP-SM zones. p.p. = 1.0 to 2.0 tsf
			128	**SILTY LEAN CLAY (CL),** trace medium sand, trace fine gravel, very plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff.	CL									
			129											
			130	**POORLY GRADED SAND WITH SILT (SP-SM),** as at 126.5 feet.	SP-SM			< 2						
			131	**LEAN CLAY WITH SILT (CL),** trace fine to medium gravel, plastic to very	CL									
			132											

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Sample: Number and Type	Sample: Length Att. & Recovered (in)	Sample: Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			133	plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff.				< 2						p.p. = 1.0 to 2.0 tsf
			134											
			135	Same as above.				< 2						p.p. = 1.0 to 2.0 tsf
			136											
			137											
			138											
			139											
			140											
			141					< 2						p.p. = 1.0 to 2.0 tsf
			142	Same as above.	CL									
			143											
			144					< 2						p.p. = 1.0 to 2.0 tsf
13 CS	240 240		145	Same as above, but stiff to very stiff.										
			146											
			147											
			148					< 2						p.p. = 1.5 to 2.5 tsf
			149											
			150	Same as above.										
			151					< 2						p.p. = 1.5 to 2.5 tsf
			152											

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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153											
			154					< 2						p.p. = 1.5 to 2.5 tsf
			155	Same as above.										
			156					< 2						p.p. = 1.5 to 2.5 tsf
			157											
			158											
			159					< 2						p.p. = 1.5 to 2.5 tsf
			160	Same as above.										
			161											
			162		CL			< 2						p.p. = 1.5 to 2.5 tsf
			163											
			164					< 2						
14 CS	240 240		165	Same as above, but medium stiff to stiff.										p.p. = 0.5 to 1.5 tsf
			166					< 2						
			167											
			168					< 2						p.p. = 0.5 to 1.0 tsf
			169	Same as above.										
			170											
			171											
			172											

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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			173	Same as above, but stiff.				< 2						p.p. = 1.0 to 1.5 tsf
			174											
			175					< 2						
			176											p.p. = 1.0 to 1.5 tsf
			177		CL									
			178					< 2						
			179											
			180											
			181					< 2						p.p. = 1.0 to 1.5 tsf
			182											
			183	**SILTY SAND (SM) AND CLAYEY SILT (ML),** in 2" to 3" layers, fine sand, non-plastic, 10YR 5/2 grayish brown, no odor, slightly moist, medium dense.	SM-ML									
			184					< 2						
15 CS	120 120		185	**POORLY GRADED SAND (SP),** fine to medium sand, 5% silt, 10YR 5/2 grayish brown, no odor, wet, loose.										
			186					< 2						
			187											
			188		SP			< 2						
			189											
			190											
			191											
			192											

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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			193	**LEAN CLAY WITH SILT (CL),**trace fine to medium gravel, plastic to very plastic, 10YR 5/2 grayish brown, no odor, slightly moist, stiff.				< 2						p.p. = 0.5 tsf
			194											
16 CS	240 240		195	**LEAN CLAY WITH SILT (CL),**very plastic, 10YR 5/1 gray, no odor, slightly moist, soft to medium stiff.										p.p. = 0.5 tsf
			196											
			197											
			198											p.p. = 0.5 tsf
			199											
			200											
			201											p.p. = 0.5 tsf
			202											
			203											
			204	Same as above.				< 2						p.p. = 0.5 tsf
			205											
			206											
			207					< 2						p.p. = 0.5 tsf
			208											
			209					< 2						
			210	Same as above.										p.p. = 0.5 tsf
			211											
			212											

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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			213					< 2						p.p. = 0.5 tsf
			214											
17 CS	240 240		215	Same as above.										
			216		CL			< 2						p.p. = 0.5 tsf
			217											
			218											
			219					< 2						p.p. = 0.5 tsf
			220											p.p. = 0.25 tsf
			221	**SANDY SILTY LEAN CLAY (CL),** 20% to 50% fine sand, moderate plasticity, 10YR 5/1 gray, no odor, moist to wet, very soft to stiff.										Gradational contact.
			222					< 2						p.p. = 0.25 tsf
			223											
			224											
			225	Increasing sand with depth.				< 2						p.p. = 0.25 tsf
			226		CL									
			227											
			228					< 2						p.p. = 0.25 tsf
			229											
			230					< 2						
			231											p.p. = 0.25 tsf
			232											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			233		CL									
				CLAYEY SILTY SAND (SC-SM-CL), fine sand, 40% to 60% clay and silt, 10YR 5/1 gray, no odor, wet, loose to medium dense.	SC-SM			< 2						p.p. = 0.25 tsf
18 CS	96 96		234	**SANDY SILTY LEAN CLAY (CL),** 10YR 5/1 gray, no odor, wet, medium stiff.										
			235	**SANDY LEAN CLAY WITH SILT (CL),** 5% to 10% medium to coarse gravel, plastic, 10YR 5/1 gray, no odor, moist, medium stiff.	CL									
			236	Increasing gravel and stiffness with depth, gravel is rounded igneous/metamorphic rock.										
			237											
			238											
			239	**CLAYEY SILTY SAND WITH GRAVEL (SC-SM),** fine to medium sand, 15% to 25% fine to coarse gravel, 20% to 40% fines, 10YR 5/1 gray, no odor, slightly moist, hard, gravel is igneous/metamorphic, rounded.	SC-SM			< 2						
			240											
			241											
			242											
19 CS	144 144		243	**SILTY SAND (SM),** fine sand, 30% to 50% fines, 10% to 15% gravel, gravel is rounded with some dolomite pieces, 10YR 7/1 light gray to 10YR 5/1 gray, no odor, dry, very hard.				< 2						Gradational contact. Difficult drilling begins at 243 feet.
			244											
			245											
			246											
			247		SM			< 2						
			248											
			249											
			250	Same as above.				< 2						
			251											
			252											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW11A Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			253					< 2						
			254		SM									
20 CS	24 18		255											
			256	**CLAYEY GRAVEL WITH SAND (GC),** 15% to 20% fines, 15% to 20% fine to coarse sand, angular gravel and sand.	GC									
			257	**DOLOMITE BEDROCK,** light gray.										
				End of boring at 257.0 feet.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW13S

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Matt Boart Longyear	4/25/2007	4/25/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW13S	Feet MSL	830.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,730 N, 2,485,099 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind drilled to 28 feet. See boring log MW13 for detailed soil descriptions.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
[signature]	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW13S Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28	**End of boring at 28.0 feet.**										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW13A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear	4/18/2007		Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW13	Feet MSL	830.0 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,732 N, 2,485,106 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 60		0–1	**WELL GRADED GRAVEL WITH SILT (GW-GM),** non-plastic, 10YR 6/1 gray, no odor. (Fill)	GW			0.0						
			1–2	**LEAN CLAY (CL),** trace sand and gravel, plastic, 10YR 3/2 very dark grayish brown, no odor, dry.	CL			0.0						
			2–4	**SILTY GRAVEL WITH SAND (GM),** well graded gravel, 10% to 20% fines, fine to coarse sand, non-plastic, 10YR 5/3 brown, no odor, moist.	GM									
2 CS	60 60		4–6	**SILTY SAND WITH GRAVEL (SM),** well graded sand, 20% to 30% fines, non-plastic, no odor, moist.	SM			0.0						
			6–12	**SILTY GRAVEL WITH SAND (GM),** well graded sand and gravel, 20% to 30% fines, non-plastic, no odor, moist.	GM			0.0						
3 CS	60 60		10–12	Same as above, some rust colored zones at 11 and 13 feet.				0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Miller

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: 608-831-4444
Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	Same as above to 15 feet.	GM			0.0						
			14					0.0						
4 CS	60 36		15	**WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM),** 10% fines, fine to coarse sand, 30% to 40% fine to coarse gravel, non-plastic, 10YR 5/4 yellowish brown, no odor, dry.										
			16					0.0						
			17		SW-SM									
			18					0.0						
			19											
5 CS	12		20	**SILTY SAND (SM),** well graded sand, mostly coarse sand, 20% to 30% fines, 10YR 4/1 dark gray, no odor, moist.				0.0						Gradational change.
6 CS	108 6		21											Hole collapse to 21 feet.
			22					0.0						
			23					0.0						
			24	**SILTY SAND (SM),** coarse sand and fine to coarse gravel, 10% to 20% fines, non-plastic, 10YR 5/6 yellowish brown, no odor, wet.				0.0						
			25											
			26		SM									
			27											
			28											
			29											
7 CS	60 36		30	**SILTY SAND (SM),** 15% fines, well graded sand, trace fine gravel, non-plastic, 10YR 5/6 yellowish brown, no odor, wet.				0.0						
			31											
			32											

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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			32	Coarsens downward.				0.0						
			33		SM									
			34	**WELL GRADED GRAVEL WITH SAND AND SILT (GW-GM),** 10% fines, fine to coarse subrounded gravel, fine to coarse sand, 10YR 5/6 yellowish brown, no odor, wet.										
8 CS	120 36		35	Same as above.										
			36	Same as above, some cobbles.				0.0						
			37											
			38											
			39		GW-GM									
			40											
			41											
			42											
			43											
			44											
			45	**WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM),** mostly coarse sand, 15% to 20% fine to coarse gravel.										
9 CS	120 18		46					0.0						
			47											
			48					0.0						
			49		SW-SM									
			50	Same as above.				0.0						
			51											
			52											

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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53		SW-SM									
			54											
10 CS	120 60		55	**WELL GRADED SAND (SW),** medium to coarse sand, trace fines, trace fine gravel, 10YR 5/3 brown, no odor, wet, sub-rounded sand grains.				0.0						
			56											
			57											
			58					0.0						
			59		SW									
			60											
			61											
			62					0.0						
			63	**WELL GRADED GRAVEL (GW),** trace silt, mostly 10YR 6/2 light brownish gray, no odor, wet.	GW									
			64	**GRAVEL WITH SILT AND SAND (GW-GM),** 10% fines, 10YR 6/2 light brownish gray, no odor, wet.										
11 CS	120 18		65	Same as above, 10% to 15% cobbles.										
			66											
			67											
			68		GW-GM									
			69											
			70											
			71											
			72											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73	Same as above.	GW-GM									
			74											
12 CS	120 6		75	**WELL GRADED SAND WITH GRAVEL (SW),** trace to 10% fines, 20% to 40% fine to coarse gravel.				0.0						
			76											
			77					0.0						
			78											
			79					0.0						
			80		SW									
			81					0.0						
			82											
			83											
			84					0.0						
13 CS	120 4		85	**WELL GRADED GRAVEL WITH SAND (GW),** trace to 10% fines.				0.0						
			86											
			87											
			88		GW									
			89											
			90											
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		GW									
			94											
14 CS	120 12		95	**WELL GRADED SAND WITH SILT (SW-SM),** trace to 10% fine to medium gravel, non-plastic, 10YR 5/4 yellowish brown, no odor, wet.				0.0						
			96											
			97											
			98											
			99											
			100		SW-SM									
			101											
			102											
			103											
			104											
			105											
15 CS	120 72		106	**WELL GRADED SAND WITH GRAVEL (SW),** trace silt, 15% to 25% fine to coarse subrounded gravel, non-plastic, no odor, wet.										
			107											
			108		SW									
			109											
			110	Same as above, mostly coarse sand, trace to 10% fine to medium gravel.										
			111											
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			113		SW									
			114											
16 CS	120 72		115	**WELL GRADED SAND (SW),** trace gravel and silt, non-plastic, 10YR 5/3 yellowish brown, no odor, wet.				0.0						
			116											
			117											
			118											
			119											
			120		SW									
			121											
			122											
			123											
			124	6" of cobbles and fine to coarse gravel, trace sand, trace silt.										
17 CS	120 60		125	**WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM),** non-plastic, 10YR 5/4 yellowish brown, no odor, wet.				0.0						
			126											
			127											
			128		SW-SM									
			129											
			130											
			131											
			132											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133	Same as above.										
			134											
18 CS	120 60		135	Same as above, less gravel, less silt, trace fines.				0.0						
			136											
			137											
			138											
			139		SW-SM									
			140											
			141											
			142											
			143											
			144											
19 CS	120 96		145	**WELL GRADED SAND (SW)**, as above, but no gravel to trace gravel, less silt.				0.0						
			146											
			147											
			148		SW									
			149											
			150											
			151											
			152											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			153	**POORLY GRADED GRAVEL AND COBBLES (GP),** trace to 10% silt and fine to coarse sand, subrounded gravel, 10YR 5/1 gray, no odor, wet.	GP			0.0						
			154					0.0						
20 CS	120 108		155	**WELL GRADED SAND WITH GRAVEL (SW),** medium to coarse sand, trace to 10% fine to medium gravel, trace silt, no odor, wet.										
			156					0.0						
			157											
			158											
			159	Same as above.										
			160											
			161											
			162					0.0						
			163											
			164		SW									
21 CS	120 96		165	Same as above, 5% to 15% fine to medium gravel.										
			166											
			167											
			168	Same as above.										
			169											
			170											
			171											
			172											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
22 CS	120 36		173 174 175 176 177 178 179	Same as above, some stainless steel from screen broken on last water sample.				0.0						
			180 181 182 183 184	Same as above.	SW			0.0						
23 CS	120 96		185 186 187 188 189	Same as above, coarse sand and gravel, trace silt, non-plastic, 10YR 4/3 brown, no odor, wet.				0.0						
			190 191 192	**WELL GRADED GRAVEL WITH SAND (GW),** 60% fine to coarse gravel, trace to 20% cobbles, coarse sand, non-plastic, 10YR 6/8 brownish yellow.	GW									

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Boring Number MW13A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			193	**SANDY SILT (ML),** 35% to 45% very fine sand, non-plastic, 10YR 4/2 dark gray, no odor, wet.										
			194		ML									
			195											
24 CS	120 0													No recovery on first attempt due to drilling difficulty.
25 CS	120 120		196	**SANDY SILTY LEAN CLAY (CL),** plastic, 10YR 4/2 dark gray, no odor, moist, gravel content increases to 15% with depth.				0.0						
			197											
			198											
			199											
			200											
			201		CL									
			202											
			203											
			204											
28 CS	42 36		205											
			206											
			207	**DOLOMITE BEDROCK,** weathered, silty, with horizontal layers of dolomite, very hard drilling, no odor, dry (due to hard drilling).				0.0						
			208	**End of boring at 208.5 feet.**										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW14A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear	4/24/2007	4/30/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW14A	Feet MSL	810.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 326,156 N, 2,486,454 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 60		1	**SILTY LEAN CLAY (CL),** 5% to 10% fine sand, trace fine to medium gravel, medium plasticity, 10YR 5/3 brown, no odor, slightly moist.				0.0						p.p. = 3.0 tsf
			2					0.0						p.p. = 1.5 tsf
			3	Grades to plastic, 10YR 5/2 grayish brown, stiff.										
			4					0.0						p.p. = 1.0 to 1.5 tsf
2 CS	120 120		5	Same as above.										
			6		CL			0.0						p.p. = 1.0 to 1.5 tsf
			7											
			8					0.0						p.p. = 1.0 to 1.5 tsf
			9											
			10					0.0						p.p. = 1.0 to 1.5 tsf
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 608-831-4444
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW14A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13					0.0						p.p. = 1.0 to 1.25 tsf
			14					0.0						p.p. = 1.5 tsf
3 CS	240 240		15	Same as above, increasing silt with depth.	CL									
			16					0.0						p.p. = 0.5 tsf
			17	**CLAYEY SILT WITH SAND (ML),** 10% to 30% very fine sand, non-plastic, 10YR 5/1 gray, no odor, moist, medium stiff.										
			18					0.0						p.p. = 0.5 tsf
			19											
			20					0.0						p.p. = 0.5 tsf
			21		ML									
			22					0.0						p.p. = 0.5 tsf
			23											
			24	**WELL GRADED SAND WITH SILT (SW-SM),** fine to medium sand, 10YR 5/1 gray, no odor, wet, loose.				0.0						
			25		SW-SM									
			26					0.0						
			27	**CLAYEY SILT (ML),** as at 17 feet.										
			28					0.0						
			29		ML									
			30	**WELL GRADED SAND (SW),** medium to coarse sand.	SW			0.0						p.p. = 0.5 to 1.0 tsf
			31	**LEAN CLAY WITH SILT (CL),** plastic to very plastic, 10YR 5/1 gray, no odor, slightly moist, medium stiff to stiff.	CL									
			32											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW14A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33					0.0						p.p. = 0.5 to 1.0 tsf
			34		Cl.			0.0						
4 CS	240 240		35	**WELL GRADED SAND WITH SILT (SW-SM),** fine to medium sand, fine to coarse gravel, 10YR 5/2 grayish brown, no odor, wet, loose.										
			36					0.0						
			37		SW-SM									
			38					0.0						
			39											
			40	**WELL GRADED SAND (SW),** fine to coarse sand, trace silt, trace fine to coarse gravel, rounded gravel, 10YR 5/2 grayish brown, no odor, wet, loose.				0.0						
			41											
			42					0.0						
			43											
			44											
			45	10% to 20% fine to coarse gravel between 45 and 46 feet.										
			46		SW			0.0						
			47											
			48	Same as above.				0.0						
			49											
			50					0.0						
			51											
			52											

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Boring Number MW14A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
5 CS	120 120		53 54 55 56 57 58 59	Same as above.	SW			0.0 0.0 0.0 0.0						
			60 61 62 63 64	**SILTY SAND (SM),** fine sand, 20% to 40% silt, 10YR 5/1 gray, no odor, wet, loose to medium dense.	SM			0.0 0.0 0.0						
6 CS	120 120		65 66 67	Increasing clay and gravel with depth.				0.0						
			68 69 70 71 72	**SILTY LEAN CLAY (CL),** 10% to 15% fine to medium sand, 5% to 10% fine to coarse gravel, plastic to very plastic, 10YR 5/1 gray, no odor, moist, soft.	CL			0.0 0.0						p.p. < 0.5 tsf p.p. < 0.5 tsf

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Boring Number MW14A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			72	Trace gravel below 72 feet.	CL			0.0						p.p. < 0.5 tsf
			73											
			74					0.0						p.p. < 0.5 tsf
7 CS	240 240		75	**SILT (ML),** 5% to 10% fine sand, trace fine gravel, non-plastic, 10YR 5/1 gray, no odor, slightly moist, very stiff.										
			76					0.0						p.p. = 3.0 tsf
			77											
			78	Trace sand below 78 feet.				0.0						p.p. = 3.0 to 3.5 tsf
			79											
			80					0.0						p.p. = 3.0 to 3.5 tsf
			81											
			82					0.0						p.p. = 3.0 to 3.5 tsf
			83		ML									
			84					0.0						p.p. = 3.0 to 3.5 tsf
			85											
			86					0.0						p.p. = 4.0 tsf
			87											
			88	Increasing sand below 88 feet to 10% to 15% sand, 5% fine to medium gravel, very stiff to hard.				0.0						p.p. = 4.0 tsf
			89											
			90					*0.0*						*p.p. = 4.0 tsf*
			91											
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Boring Number MW14A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93		ML			0.0						p.p. = 4.0 tsf
			94					0.0						p.p. > 4.5 tsf
8 CS	60 60		95	**SILTY SAND (SM),** fine sand, 30% to 50% silt, 5% to 10% fine to coarse gravel, 10YR 5/1 gray, no odor, slightly moist, hard. (New Berlin Till)	SM									
			96					0.0						p.p. > 4.5 tsf
			97											
			98					0.0						p.p. > 4.5 tsf
			99											
			100	**End of boring at 100.0 feet.**										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW15A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Hansen Boart Longyear	5/4/2007	5/8/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW15A	Feet MSL	834.4 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,169 N, 2,486,375 E S/C/N
Lat ___° ___' ___" Long ___° ___' ___"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W
1/4 of 1/4 of Section , T N. R

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Air knifed to 7 feet. Cuttings are clay with trace sand and gravel.										
			2											
			3											
			4											
			5											
			6		CL									
1 CS	96 96		7	**SILTY LEAN CLAY (CL),** trace gravel and fine to coarse sand, plastic, 10YR 4/3 brown, no odor, moist, hard.				0.0						p.p. > 4.5 tsf
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13		CL			0.0						p.p. > 4.5 tsf
			13	**SILTY GRAVEL WITH SAND (GM),** well graded fine to coarse gravel, fine to coarse sand, 10% to 20% fines, 10YR 5/3 brown to 10YR 4/6, moist, dense.										
2 CS	120 102		15	Same as above.										
			24		GM									
			24	**SILTY SAND WITH GRAVEL (SM),** well graded sand, 10% to 20% fines, fine to coarse gravel, no odor, moist.	SM									Gradational contact.
3 CS	120 120		25	**WELL GRADED SAND WITH GRAVEL (SW),** trace silt, 30% to 40% fine to coarse gravel, non-plastic, 10YR 5/6 yellowish brown, no odor, wet.	SW									
			30	**WELL GRADED SAND (SW),** trace fine gravel, trace fines, mostly medium to coarse sand, grayish brown.	SW									

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34	5" silt and clay seam. Color change to 10YR 4/2 grayish brown, wet.				0.0						
4 CS	120 120		35	**WELL GRADED SAND (SW),** trace fine gravel, mostly fine to medium sand, trace fines, non-plastic, no odor, 10YR 4/2 grayish brown, wet.										
			36											
			37		SW									
			38											
			39											
			40											
			41											
			42					0.0						
			43	**POORLY GRADED SAND (SP),** fine sand, trace silt, non-plastic, no odor, wet.										Gradational contact.
			44		SP									
5 CS	120 120		45	**WELL GRADED SAND (SW),** trace to 10% fines, fine to coarse sand, mostly medium sand, non-plastic, 10YR 4/2 grayish brown, no odor, wet.										
			46					0.0						
			47											
			48	Same as above.				0.0						
			49		SW									
			50											
			51											
			52											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53		SW			0.0						
			54											
6 CS	120 96		55	**POORLY GRADED SAND (SP),** fine to medium sand, trace to 10% fines.										
			56											
			57											
			58					0.0						
			59		SP									
			60											
			61											
			62											
			63											
			64	**SILTY SAND (SM),** fine sand, 20% to 30% fines, non-plastic, light grayish brown, no odor, wet, dense.	SM									
7 CS	120 96		65	**POORLY GRADED SAND (SP),** fine sand, trace to10% silt, non-plastic, no odor, wet.										
			66											
			67		SP									
			68											
			69											
			70	**WELL GRADED SAND (SW),** trace to 15% fines (silty zones), trace to 5% fine gravel, gray, no odor, wet.	SW			0.0						
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			72	Same as above, gravel content increases.				0.0						
			73											
			74					1.2						
8 CS	120 96		75	Same as above, no gravel.										
			76											
			77											
			78											
			79		SW									
			80					0.5						
			81											
			82											
			83											
			84	Some blackish zones with pyrite.				0.0						
9 CS	120 108		85	**POORLY GRADED SAND (SP)**, very fine sand, trace gravel, non-plastic, 10YR 5/1 gray, no odor, wet, dense.										
			86											
			87											
			88		SP									
			89											
			90											
			91											
			92											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			93					0.0						
			94		SP									
10 CS	120 108		95	**WELL GRADED SAND (SW),** trace silt and gravel, 10YR 5/1 gray, no odor, wet.										
			96	Same as above.				1.1						
			97					1.2						
			98											
			99											
			100											
			101											
			102					1.3						
			103		SW									
			104					1.0						
11 CS	120 108		105	Same as above.										
			106											
			107	Sand coarsens downward.										
			108											
			109											
			110					1.2						
			111											
			112											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			113		SW									
			114	**WELL GRADED SAND WITH GRAVEL (SW),** 30% fine to medium gravel, trace silt, non-plastic, 10YR 5/1 gray, no odor, wet.				1.2						
12 CS	120 72		115		SW									
			116	**WELL GRADED SAND (SW),** trace gravel and silt, fine to coarse sand, mostly medium sand, rounded grains, non-plastic, 10YR 5/1 gray, no odor, wet.										
			117											
			118					1.7						
			119											
			120					1.3						
			121											
			122											
			123											
			124		SW			0.2						
13 CS	120 108		125	Same as above.										
			126											
			127											
			128	Gravel increases with depth.				0.7						
			129											
			130											
			131											
			132											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW15A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133		SW			1.4						
			134	**WELL GRADED SAND WITH GRAVEL (SW),** mostly medium to coarse sand, trace to 5% silt, non-plastic, 10YR 5/1 gray, no odor, wet.	SW									
14 CS	120 120		135	**SANDY LEAN CLAY (CL),** 15% to 25% fine to medium sand, slight plasticity, 10YR 4/2 dark brownish gray, no odor, moist.										
			136											
			137											
			138											
			139											
			140		CL									
			141											
			142											
			143											
			144											
			145	**End of boring at 145.0 feet.**										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Chris Honter Boart Longyear	5/3/2007	5/3/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW17	Feet MSL	799.7 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,834 N, 2,489,225 E S/C/(N)
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Blind drilled to 75 feet. See boring log MW17A for detailed soil descriptions.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature → Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
Tel: 608-831-4444
Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17 Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17 Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41											
			42											
			43											
			44											
			45											
			46											
			47											
			48											
			49											
			50											
			51											
			52											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17 Use only as an attachment to Form 4400-122.

Sample									Soil Properties						
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											
			66											
			67											
			68											
			69											
			70											
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	120 120		73											
			74											
			75	**SILTY LEAN CLAY (CL),** trace fine to coarse sand and gravel, plastic, 10YR 4/2 dark brownish gray, no odor, wet.										
			76											
			77											
			78											
			79		CL									
			80											
			81											
			82											
			83	**SILT WITH SAND (ML),** 10% to 30% fine sand, non-plastic, 10YR 4/2 dark brownish gray, no odor, wet.	ML									
			84											
2 CS	120 120		85	**SILTY SAND (SM),** well graded sand, 10% to 30% silt, non-plastic, no odor, wet.										
			86	**SILTY SAND (SM),** 25% to 35% fines, poorly graded fine sand, non-plastic, 10YR 5/2 grayish brown, no odor, wet.										
			87											
			88		SM									
			89											
			90											
			91											
			92	**SANDY SILTY LEAN CLAY (CL),**	CL									

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17 Use only as an attachment to Form 4400-122. Page 6 of 6

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3 CS	120 120		93	trace gravel, 10YR 4/2 dark brownish gray, no odor, wet.	CL									
			94											
			95											
			96											
			97											
			98											
			99	Same as above.										
			100											
			101											
			102											
			103											
			104											
			105	**End of boring at 105.0 feet.**										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Muskego Landfill		MW17A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Boart Longyear	4/22/2007	5/2/2007	Rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW17A	Feet MSL	799.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 328,844 N, 2,489,225 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	180 144		1	**WELL GRADED GRAVEL (GW)**, gray. (Fill)	GW									
			2	**SILTY LEAN CLAY WITH GRAVEL (CL)**, plastic, 10YR 4/3 brown, some light gray mottling, no odor, moist, hard.				0.0						p.p. > 4.5 tsf
			3											
			4											
			5											
			6		CL									
			7					0.0						p.p. > 4.5 tsf
			8	Same as above.										
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: 608-831-4444 Fax: 608-831-3334

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12	Same as above.				0.0						p.p. > 4.5 tsf
			13		CL									
			14	0.5" silt seam at 14 feet.				0.0						p.p. = 0.25 to 0.5 tsf
2 CS	240 240		15	**SILTY LEAN CLAY (CL)**,5% to 15% fine to medium sand, trace fine gravel, very plastic, 10YR 5/2 grayish brown, no odor, slightly moist to moist, medium stiff.										
			16					0.0						p.p. = 0.25 to 0.5 tsf
			17											
			18					0.0						p.p. = 0.5 tsf
			19											
			20	Same as above, increasing stiffness with depth.				0.0						p.p. = 0.5 tsf
			21											
			22					0.0						p.p. = 0.5 to 1.0 tsf
			23		CL									
			24					0.0						p.p. = 0.5 to 1.0 tsf
			25	Same as above.										
			26					0.0						p.p. = 0.5 to 1.0 tsf
			27											
			28					0.0						p.p. = 0.5 to 1.0 tsf
			29											
			30	Same as above, stiff.				0.0						p.p. = 0.5 to 1.0 tsf
			31											
			32											

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Boring Number MW17A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33					0.0						p.p. = 1.5 tsf
			34					0.0						p.p. = 1.0 tsf
3 CS	240 240		35											
			36					0.0						p.p. = 1.0 tsf
			37											
			38					0.0						p.p. = 1.0 tsf
			39											
			40	Same as above.				0.0						p.p. = 1.0 tsf
			41											
			42		CL			0.0						p.p. = 1.5 tsf
			43											
			44					0.0						p.p. = 1.5 tsf
			45											
			46	Same as above, no gravel below 50 feet.				0.0						p.p. = 1.5 tsf
			47											
			48					0.0						p.p. = 1.5 tsf
			49											
			50					0.0						p.p. = 1.5 tsf
			51											
			52											

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SOIL BORING LOG INFORMATION SUPPLEMENT
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Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			53					0.0						p.p. = 1.5 tsf
			54					0.0						p.p. = 0.5 to 1.0 tsf
4 CS	240 240		55	Same as above.										
			56					0.0						p.p. = 0.5 to 1.0 tsf
			57											
			58					0.0						p.p. = 1.0 to 1.5 tsf
			59											
			60					0.0						p.p. = 1.0 to 1.5 tsf
			61											
			62		CL			0.0						p.p. = 1.0 to 1.5 tsf
			63											
			64					0.0						p.p. = 1.5 to 2.5 tsf
			65	Same as above, but trace fine to coarse gravel and fine to coarse sand, very stiff.										
			66					0.0						p.p. = 3.5 tsf
			67											
			68					0.0						p.p. = 2.5 tsf
			69											
			70	Same as above, but stiff.				0.0						p.p. = 1.5 to 2.0 tsf
			71											
			72											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			73					0.0						p.p. = 1.5 to 2.0 tsf
			74					0.0						p.p. = 0.5 to 1.0 tsf
5 CS	240 240		75	Same as above, but medium stiff.										
			76					0.0						p.p. = 0.5 to 1.0 tsf
			77											
			78					0.0						p.p. = 0.5 to 1.0 tsf
			79		CL									
			80	Same as above, increasing silt with depth.				0.0						p.p. = 0.5 to 1.0 tsf
			81											
			82					0.0						p.p. = 0.5 to 1.0 tsf
			83											
			84					0.0						
			85	**SILT WITH SAND (ML),** 10% to 30% fine sand, 5% to 15% fine sand, trace gravel, 10YR 5/2 grayish brown, no odor, moist, medium dense to dense.	ML									
			86					0.0						
			87	**SILTY SAND (SM),** fine sand, 20% to 40% silt, 5% to 10% clay, trace gravel, 10YR 5/2 grayish brown, no odor, moist, medium dense.	SM									
			88					0.0						
			89	**SILT WITH SAND (ML),** as at 85 feet.										
			90		ML			0.0						
			91	Increasing sand.										
			92											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

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Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			92		ML			0.0						
			93	**WELL GRADED SAND (SW),** trace silt, 10YR 5/2 grayish brown, no odor, wet, loose.	SW									
			94											
			95	**SILTY SAND (SM),** fine sand, 10% to 30% silt, 10YR 5/2 grayish brown, no odor, slightly moist, dense.	SM									
6 CS	120 120		96	**WELL GRADED SAND (SW),** as at 92.5 feet.	SW									
			97											
			98	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 4/2 dark grayish brown, no odor, wet, stiff to very stiff.										
			99											
			100											
			101											
			102											
			103											
			104											
			105		CL									
7 CS	240 240		106	**SILTY LEAN CLAY (CL),** trace gravel, plastic, 10YR 4/2 dark grayish brown, no odor, wet, stiff to very stiff.				0.0						p.p. = 1.5 tsf
			107											
			108					0.0						
			109											
			110											p.p. = 2.5 tsf
			111											
			112											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			113					0.0						
			114											p.p. = 2.0 tsf
			115											
			116					0.0						
			117											
			118											p.p. = 1.5 tsf
			119											
			120					0.0						
			121											
			122		CL			0.0						p.p. = 2.5 tsf
			123											
			124											
			125											
8 CS	240 240		126	Same as above.				0.0						p.p. = 2.5 tsf
			127											
			128											
			129											
			130					0.0						p.p. = 2.0 tsf
			131											
			132											

WDNR_SBL_98 07133W.GPJ WI_DNR98.GDT 6/20/07

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			133											
			134					0.0						p.p. = 3.0 tsf
			135											
			136											
			137											
			138					0.0						p.p. = 3.5 tsf
			139											
			140											
			141											
			142		CL			0.0						p.p. = 3.5 tsf
			143											
			144											
9 CS	120 120		145	Same as above.										
			146											
			147											
			148											
			149											
			150					0.0						p.p. = 2.5 tsf
			151											
			152											

WDNR_SBL_98 07133W.GPJ WI_DNR98.GDT 6/20/07

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW17A Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
10 CS	180 156		153											
			154					0.0						p.p. = 3.0 tsf
			155	Same as above.										
			156											
			157											
			158		CL			0.0						p.p. = 2.5 tsf
			159											
			160											
			161											
			162					0.0						p.p. = 3.0 tsf
			163					0.0						
			164	**SILTY LEAN CLAY WITH GRAVEL (CL),** plastic, 10YR 4/2, no odor, wet.										p.p. = 2.5 tsf
			165		CL									
			166	**DOLOMITE BEDROCK,** weathered, white, fractured, dry from drilling, no odor.				0.0						
			167											
			168											
			169											
			170	**End of boring at 170.0 feet.**										

WDNR_SBL_98 07133W.GPJ WI_DNR98.GDT 6/20/07

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW01
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 330,901 ft. N. 2,489,238 ft. E. S/C/N	Date Well Installed: 11/01/2005
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller, Layne Northwest
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 830.89 ft. MSL

B. Well casing, top elevation 830.66 ft. MSL

C. Land surface elevation 827.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☒ GC ☐ GW ☒ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☐ 41 Rotosonic Other ☒ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top ____ ft. MSL or ____ ft.

F. Fine sand, top 737.7 ft. MSL or 90.0 ft.

G. Filter pack, top 735.7 ft. MSL or 92.0 ft.

H. Screen joint, top 733.7 ft. MSL or 94.0 ft.

I. Well bottom 728.7 ft. MSL or 99.0 ft.

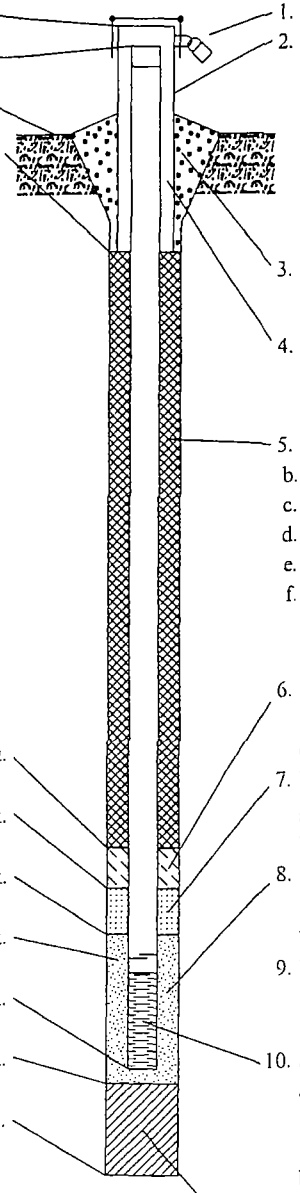
J. Filter pack, bottom 728.2 ft. MSL or 99.5 ft.

K. Borehole, bottom 719.7 ft. MSL or 108.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.05 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: ____ Steel ☐ 04 Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 30 Concrete ☐ 01 ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 30 ____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 2 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. 12.3 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000
b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added 3.1 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 ____ Other ☐ __
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 Continuous slot ☐ 01 ____ Other ☐ __
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 14 3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel P Keller Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: (608) 831-4444 Fax: (608) 831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW01A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 330,878 ft. N, 2,489.240 ft. E. S/C/N	Date Well Installed: 03/17/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____ Layne Northwest

A. Protective pipe, top elevation 829.79 ft. MSL

B. Well casing, top elevation 829.52 ft. MSL

C. Land surface elevation 826.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 699.2 ft. MSL or 127.5 ft.

F. Fine sand, top 694.7 ft. MSL or 132.0 ft.

G. Filter pack, top 692.7 ft. MSL or 134.0 ft.

H. Screen joint, top 690.7 ft. MSL or 136.0 ft.

I. Well bottom 685.7 ft. MSL or 141.0 ft.

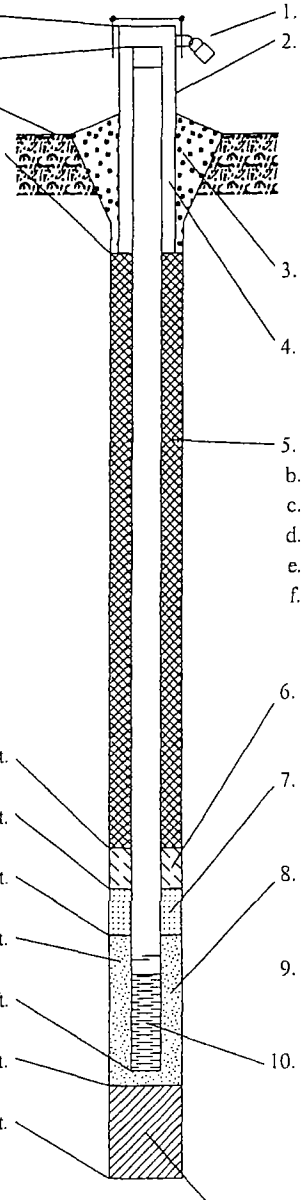
J. Filter pack, bottom 683.7 ft. MSL or 143.0 ft.

K. Borehole, bottom 678.7 ft. MSL or 148.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing ____ in.

N. I.D. well casing ____ in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4
____ Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 3 0
Concrete ☐ 0 1
____ Other ☐ __

4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
____ Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000 __
b. Volume added 0.6 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. *Ohio #5* __
b. Volume added ____ ft³

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 212 Tel: (608) 831-4444 Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ft. ☐N. ☐S. ____ft. ☐E. ☐W.	Well Name: MW01B
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 330.887 ft. N, 2,489.239 ft. E. S/C/N	Date Well Installed: 02/01/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____1/4 of ____1/4 of Sec. ____, T. ____N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm) Vince Mueller
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____ Layne Northwest

A. Protective pipe, top elevation 830.79 ft. MSL

B. Well casing, top elevation 830.53 ft. MSL

C. Land surface elevation 827.2 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☒ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☐ 4 1 / Rotosonic / Other ☒ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 579.2 ft. MSL or 248.0 ft.

F. Fine sand, top 574.2 ft. MSL or 253.0 ft.

G. Filter pack, top 572.2 ft. MSL or 255.0 ft.

H. Screen joint, top 570.2 ft. MSL or 257.0 ft.

I. Well bottom 565.2 ft. MSL or 262.0 ft.

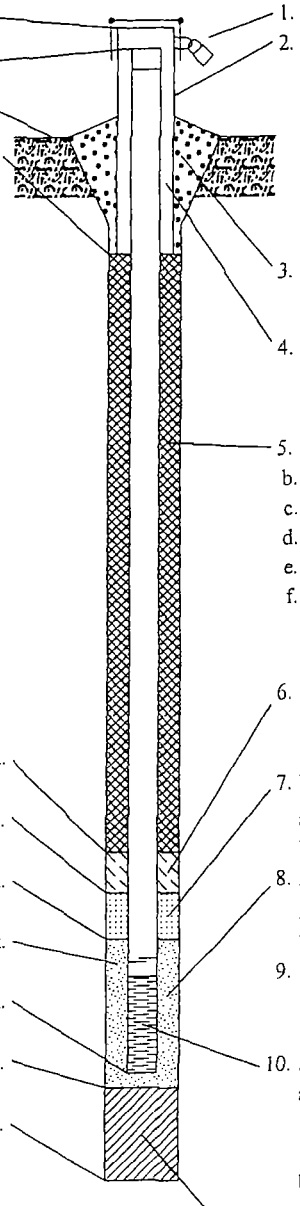
J. Filter pack, bottom 564.2 ft. MSL or 263.0 ft.

K. Borehole, bottom 549.2 ft. MSL or 278.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.91 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4 / ____ Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 3 0 / Concrete ☐ 0 1 / ____ Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 3 0 / ____ Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 64.6 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☒ 0 2 / Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000
b. Volume added 0.7 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added 4.2 ft³

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 / Flush threaded PVC schedule 80 ☒ 2 4 / ____ Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / ____ Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4 / 3/8" Bentonite chips / Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 213 Tel: (608) 831-4444 Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW02
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 331,907 ft. N, 2,488,979 ft. E. S/C/N	Date Well Installed: 11/04/2005
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller, Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation 857.18 ft. MSL

B. Well casing, top elevation 856.94 ft. MSL

C. Land surface elevation 853.9 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top ____ ft. MSL or ____ ft.

F. Fine sand, top 772.9 ft. MSL or 81.0 ft.

G. Filter pack, top 770.9 ft. MSL or 83.0 ft.

H. Screen joint, top 768.9 ft. MSL or 85.0 ft.

I. Well bottom 763.9 ft. MSL or 90.0 ft.

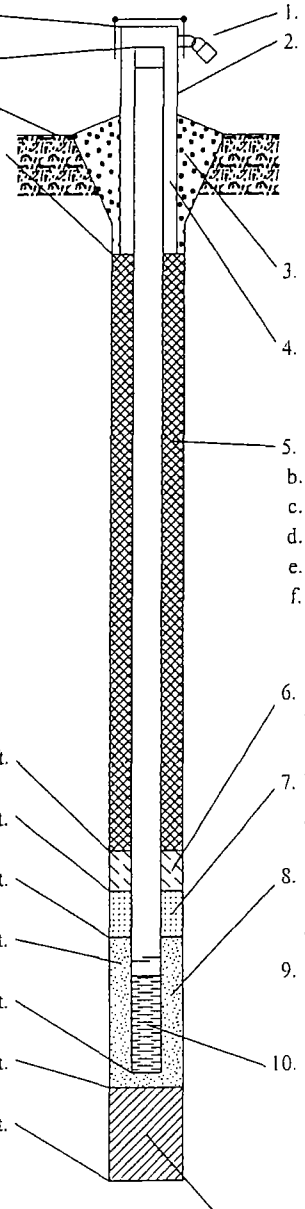
J. Filter pack, bottom 763.4 ft. MSL or 90.5 ft.

K. Borehole, bottom 745.9 ft. MSL or 108.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.05 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: ____ in.
   b. Length: ____ ft.
   c. Material: Steel ☐ 0 4 Other ☒
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 Concrete ☐ 0 1 Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 Other ☒
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 2 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 15.4 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1 Tremie pumped ☐ 0 2 Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
   c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
   a. Ohio #4000
   b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Ohio #5
   b. Volume added 2.2 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 Other ☐
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐
    b. Manufacturer ____
    c. Slot size: 0.010 in.
    d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
    3/8" Bentonite chips Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
[signature]	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW03
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 331.390 ft. N, 2,490.873 ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID		Date Well Installed: 10/27/2005
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N. R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Vince Mueller, Layne Northwest
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 822.09 ft. MSL
B. Well casing, top elevation 821.64 ft. MSL
C. Land surface elevation 819.3 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ __

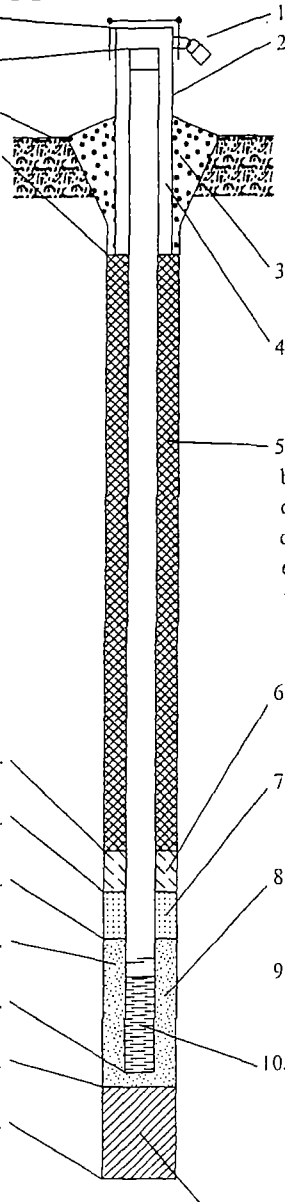
15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 755.3 ft. MSL or 64.0 ft.
F. Fine sand, top 750.3 ft. MSL or 69.0 ft.
G. Filter pack, top 748.3 ft. MSL or 71.0 ft.
H. Screen joint, top 746.3 ft. MSL or 73.0 ft.
I. Well bottom 736.3 ft. MSL or 83.0 ft.
J. Filter pack, bottom 735.8 ft. MSL or 83.5 ft.
K. Borehole, bottom 721.3 ft. MSL or 98.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.05 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4; ____ Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0; Concrete ☐ 0 1; ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; ____ Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 2 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 15.4 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; *Tremie pumped* ☒ *0 2*; Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 3 2
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000
b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added 2.1 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ __
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; ____ Other ☐ __
b. Manufacturer ____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; 3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 215 Tel: (608) 831-4444 Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ft. ☐N. ☐S. ____ft. ☐E. ☐W.	Well Name: MW03A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 331,381 ft. N, 2,490,867 ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID	Section Location of Waste/Source: ____1/4 of ____ 1/4 of Sec. ____, T. ____ N. R. ____ ☐E ☐W	Date Well Installed: 01/04/2006
Type of Well: Well Code 12/pz	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Vince Mueller; Layne Northwest
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Gov. Lot Number	

A. Protective pipe, top elevation 822.10 ft. MSL

B. Well casing, top elevation 821.69 ft. MSL

C. Land surface elevation 818.8 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☐ 41; Rotosonic; Other ☒ __

15. Drilling fluid used: Water ☒ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required): Muskego City

E. Bentonite seal, top 595.8 ft. MSL or 223.0 ft.

F. Fine sand, top 590.8 ft. MSL or 228.0 ft.

G. Filter pack, top 588.8 ft. MSL or 230.0 ft.

H. Screen joint, top 585.8 ft. MSL or 233.0 ft.

I. Well bottom 580.8 ft. MSL or 238.0 ft.

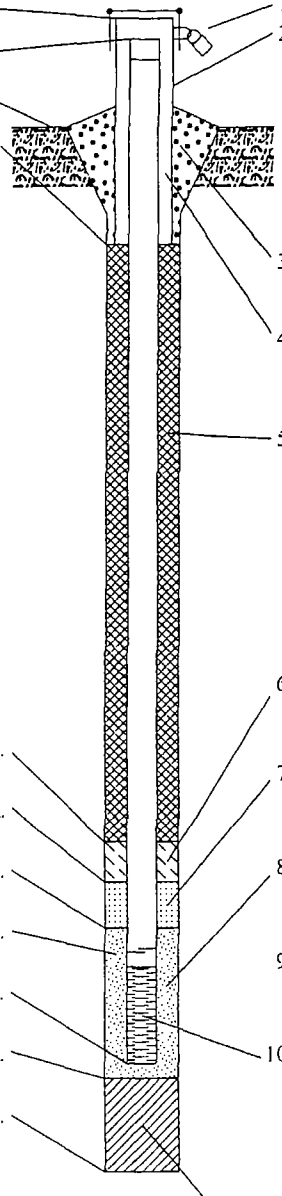
J. Filter pack, bottom 578.8 ft. MSL or 240.0 ft.

K. Borehole, bottom 542.8 ft. MSL or 276.0 ft.

L. Borehole, diameter ____ in.

M. O.D. well casing ____ in.

N. I.D. well casing ____ in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04; ____ Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30; Concrete ☐ 01; ____ Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 30; ____ Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 2.25 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. 49.2 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☒ 02; Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000
b. Volume added 1.3 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added 2.8 ft³

9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 ☒ 24; ____ Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11; Continuous slot ☐ 01; ____ Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 14; 3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel A Keller | Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 | 216 | Tel: (608) 831-4444 Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292. 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW04
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 327,371 ft. N. 2,486,464 ft. E. S/C/N	Date Well Installed: 03/07/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller / Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 829.54 ft. MSL

B. Well casing, top elevation 829.39 ft. MSL

C. Land surface elevation 826.2 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☐ 4 1 / Rotosonic / Other ☒ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 777.2 ft. MSL or 49.0 ft.

F. Fine sand, top 772.2 ft. MSL or 54.0 ft.

G. Filter pack, top 770.2 ft. MSL or 56.0 ft.

H. Screen joint, top 768.2 ft. MSL or 58.0 ft.

I. Well bottom 763.2 ft. MSL or 63.0 ft.

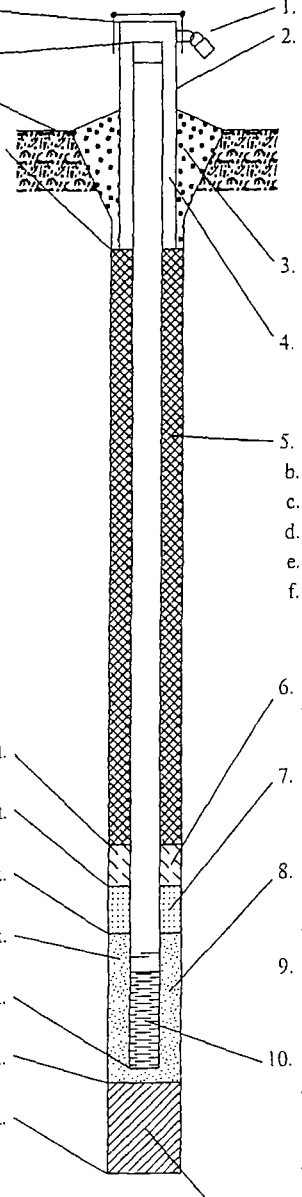
J. Filter pack, bottom 761.2 ft. MSL or 65.0 ft.

K. Borehole, bottom 688.2 ft. MSL or 138.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing ____ in.

N. I.D. well casing ____ in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4 / Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 3 0 / Concrete ☐ 0 1 / Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 3 0 / Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 30.1 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☒ 0 2 / Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Flint
b. Volume added 1.05 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added 4.2 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4 / 3/8" Bentonite chips / Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel J Kelly Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 217 Tel: (608) 831-4444 Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW04A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 327,366 ft. N, 2,486,464 ft. E. S/C/N	Date Well Installed: 03/23/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller / Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 829.42 ft. MSL

B. Well casing, top elevation 829.10 ft. MSL

C. Land surface elevation 826.1 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☐ 41 Rotosonic Other ☒ __

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 686.1 ft. MSL or 140.0 ft.

F. Fine sand, top 683.1 ft. MSL or 143.0 ft.

G. Filter pack, top 681.1 ft. MSL or 145.0 ft.

H. Screen joint, top 679.1 ft. MSL or 147.0 ft.

I. Well bottom 674.1 ft. MSL or 152.0 ft.

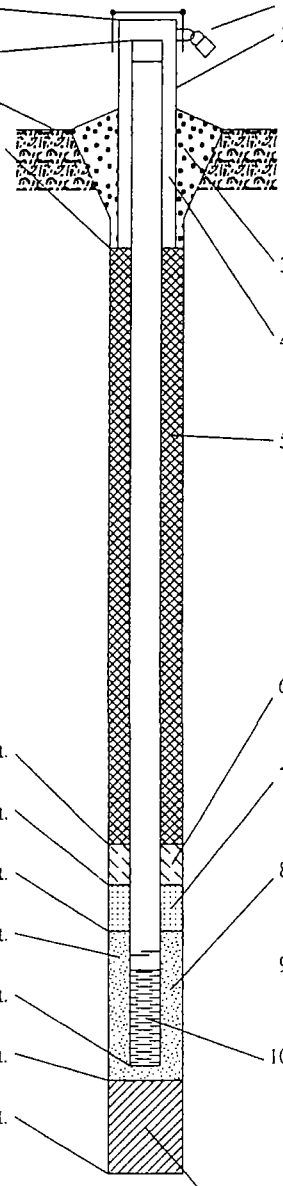
J. Filter pack, bottom 673.1 ft. MSL or 153.0 ft.

K. Borehole, bottom 648.1 ft. MSL or 178.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing ____ in.

N. I.D. well casing ____ in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04 Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30 Concrete ☐ 01 Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 30 Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. 43 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Flint __
b. Volume added 0.7 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5 __
b. Volume added 3.5 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ __

10. Screen material: PVC __
a. Screen Type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 14 3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Matthew R Keller

Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717

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Tel: (608) 831-4444 Fax: (608) 831-3334

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW05
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 327.995 ft. N, 2,489.299 ft. E. S/C/N	Date Well Installed: 01/13/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller; Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 815.15 ft. MSL

B. Well casing, top elevation 814.84 ft. MSL

C. Land surface elevation 811.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☒ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ __

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 698.7 ft. MSL or 113.0 ft.

F. Fine sand, top 693.7 ft. MSL or 118.0 ft.

G. Filter pack, top 691.7 ft. MSL or 120.0 ft.

H. Screen joint, top 689.7 ft. MSL or 122.0 ft.

I. Well bottom 684.7 ft. MSL or 127.0 ft.

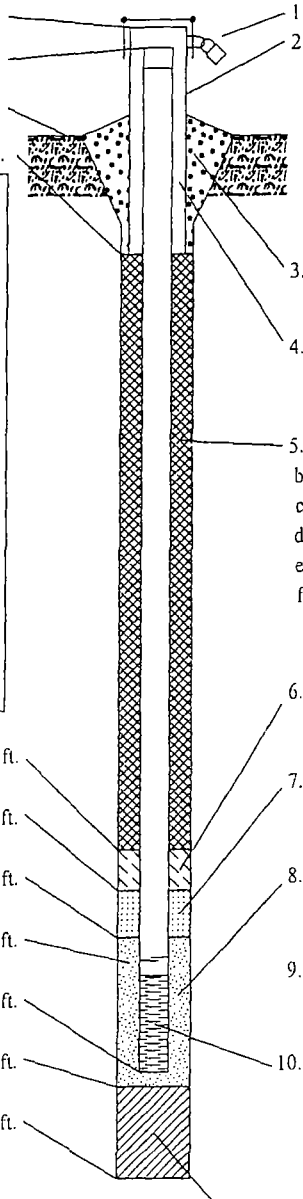
J. Filter pack, bottom 683.7 ft. MSL or 128.0 ft.

K. Borehole, bottom 683.7 ft. MSL or 128.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.91 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4; Other ☒ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 3 0; Concrete ☐ 0 1; Other ☐ __

4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Other ☒ __

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 30.7 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☒ 0 2; Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ __

7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #4000
b. Volume added 0.7 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #5
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3; Flush threaded PVC schedule 80 ☒ 2 4; Other ☐ __

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ __
b. Manufacturer Environmental Mfg. Corp.
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4; Other ☐ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: (608) 831-4444
Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW06
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 326,094 ft. N. 2,489,349 ft. E. S/C/N	Date Well Installed: 01/19/2006
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N. R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller, Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number ____	

A. Protective pipe, top elevation 802.36 ft. MSL

B. Well casing, top elevation 802.10 ft. MSL

C. Land surface elevation 799.0 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 724.0 ft. MSL or 75.0 ft.

F. Fine sand, top 718.5 ft. MSL or 80.5 ft.

G. Filter pack, top 716.5 ft. MSL or 82.5 ft.

H. Screen joint, top 714.0 ft. MSL or 85.0 ft.

I. Well bottom 709.0 ft. MSL or 90.0 ft.

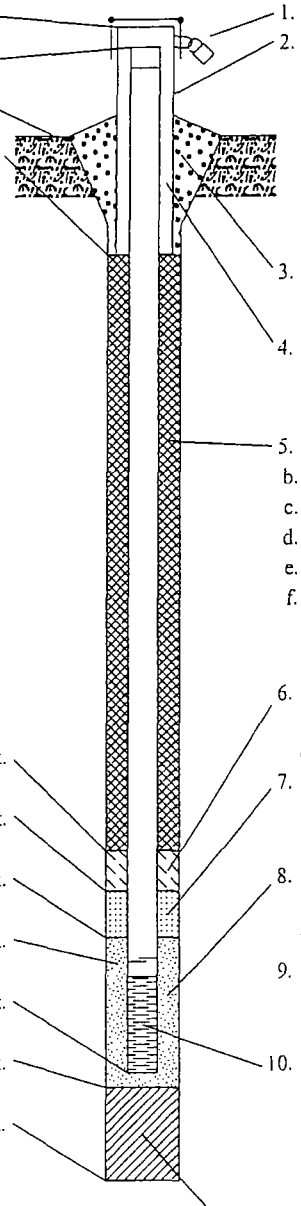
J. Filter pack, bottom 707.0 ft. MSL or 92.0 ft.

K. Borehole, bottom 685.5 ft. MSL or 113.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing ____ in.

N. I.D. well casing ____ in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: ____ in.
   b. Length: ____ ft.
   c. Material: Steel ☐ 0 4 Other ☒
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 Concrete ☐ 0 1 Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 Other ☒
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 15.8 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1 Tremie pumped ☒ 0 2 Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
   c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
   a. Ohio #4000
   b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Ohio #5
   b. Volume added 2.8 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 Flush threaded PVC schedule 80 ☒ 2 4 Other ☐
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐
    b. Manufacturer Environmental Mfg. Corp.
    c. Slot size: 0.010 in.
    d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
    3/8" Bentonite chips Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Nathaniel P Keller	RMT, Inc. 744 Heartland Trail Madison, WI 53717	Tel: (608) 831-4444 Fax: (608) 831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW07
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 329,529 ft. N, 2,489,265 ft. E. S/C/N	Date Well Installed: 12/15/2005
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Vince Mueller, Layne Northwest
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation 799.63 ft. MSL

B. Well casing, top elevation 799.21 ft. MSL

C. Land surface elevation 795.8 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ __

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):
Muskego City

E. Bentonite seal, top 586.8 ft. MSL or 209.0 ft.

F. Fine sand, top 581.8 ft. MSL or 214.0 ft.

G. Filter pack, top 579.8 ft. MSL or 216.0 ft.

H. Screen joint, top 577.8 ft. MSL or 218.0 ft.

I. Well bottom 572.8 ft. MSL or 223.0 ft.

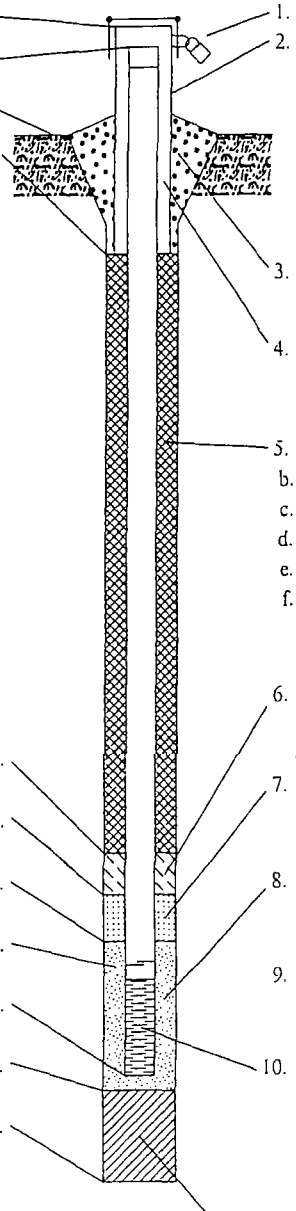
J. Filter pack, bottom 571.8 ft. MSL or 224.0 ft.

K. Borehole, bottom 547.8 ft. MSL or 248.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.91 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: ____ in.
   b. Length: ____ ft.
   c. Material: Steel ☐ 0 4 Other ☒ __
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0 Concrete ☐ 0 1 Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 3 0 Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
   d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
   e. 22.89 Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1 Tremie pumped ☒ 0 2 Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
   c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
   a. Ohio #4000
   b. Volume added 0.7 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
   a. Ohio #5
   b. Volume added 3.5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 Flush threaded PVC schedule 80 ☒ 2 4 Other ☐ __
10. Screen material: PVC
    a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐ __
    b. Manufacturer Environmental Mfg. Corp.
    c. Slot size: 0.010 in.
    d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
    3/8" Bentonite chips Other ☒ __

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: (608) 831-4444
Fax: (608) 831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW07S
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 329,540 ft. N. 2,489,265 ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Date Well Installed: 04/18/2007
Type of Well: Well Code 11/mw	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): Matt White; Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number	

A. Protective pipe, top elevation 799.14 ft. MSL
B. Well casing, top elevation 798.72 ft. MSL
C. Land surface elevation 796.1 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ _ _

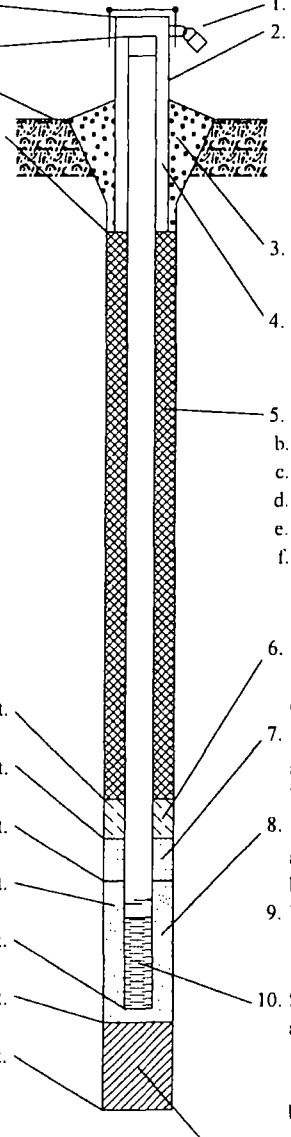
15. Drilling fluid used: Water ☒ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 756.1 ft. MSL or 40.0 ft.
F. Fine sand, top 751.1 ft. MSL or 45.0 ft.
G. Filter pack, top 749.1 ft. MSL or 47.0 ft.
H. Screen joint, top 747.1 ft. MSL or 49.0 ft.
I. Well bottom 742.1 ft. MSL or 54.0 ft.
J. Filter pack, bottom 738.1 ft. MSL or 58.0 ft.
K. Borehole, bottom 676.1 ft. MSL or 120.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Steel ☐ 0 4; Anodized Aluminum; Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; ____ Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Filter sand; Other ☒ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 10.0 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☒ 0 2; Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.6 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; ____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; 3/8" Bentonite chips; Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Roth | Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 | Tel: 608-831-4444 Fax: 608-831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

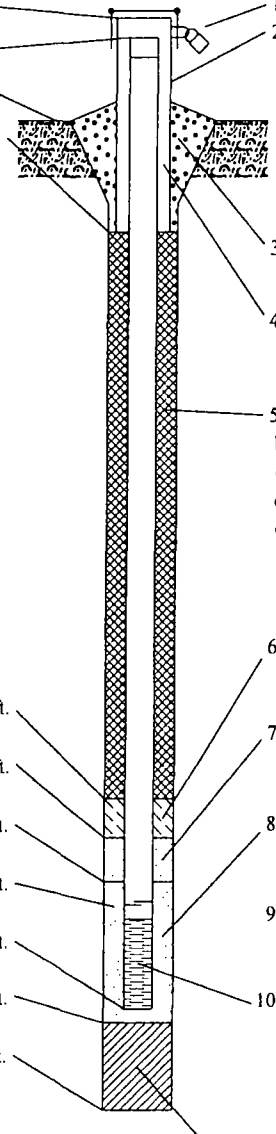
State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW08A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 332,071 ft. N, 2,490,625 ft. E. S/C/(N)	Wis. Unique Well No. / DNR Well Number
Facility ID		Date Well Installed: 05/14/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Oiden Gonzalez; Boart Longyear
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number



A. Protective pipe, top elevation 838.91 ft. MSL
B. Well casing, top elevation 838.75 ft. MSL
C. Land surface elevation 835.9 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top 769.9 ft. MSL or 66.0 ft.
F. Fine sand, top 764.9 ft. MSL or 71.0 ft.
G. Filter pack, top 762.9 ft. MSL or 73.0 ft.
H. Screen joint, top 760.9 ft. MSL or 75.0 ft.
I. Well bottom 755.9 ft. MSL or 80.0 ft.
J. Filter pack, bottom 753.9 ft. MSL or 82.0 ft.
K. Borehole, bottom 740.9 ft. MSL or 95.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☒ 0 4; Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0; Concrete ☐ 0 1; Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☒ 3 0; Slurry; Other ☐ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 8.7 Ft³ volume added for any of the above
f. How installed: Tremie ☒ 0 1; Tremie pumped ☐ 0 2; Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.5 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.5 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4; 3/8 Bentonite chips; Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 223 Tel: 608-831-4444 Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ft. ☐N. ☐S. ____ft. ☐E. ☐W.	Well Name: MW09
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 331,365 ft. N, 2,491,968 ft. E. S/C/(N)	Date Well Installed: 05/16/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____1/4 of ____1/4 of Sec. ____T. ____N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Mike Hanson, Boart Longyear
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 813.61 ft. MSL
B. Well casing, top elevation 813.39 ft. MSL
C. Land surface elevation 810.7 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☒ GC ☐ GW ☒ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

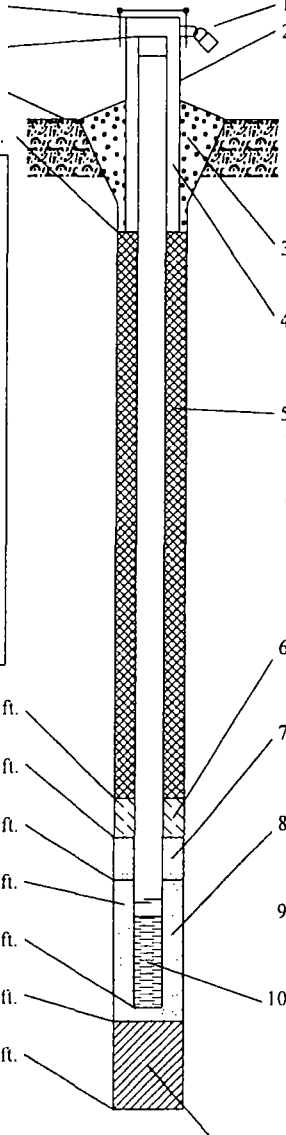
14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
____

E. Bentonite seal, top 756.7 ft. MSL or 54.0 ft.
F. Fine sand, top 751.7 ft. MSL or 59.0 ft.
G. Filter pack, top 749.7 ft. MSL or 61.0 ft.
H. Screen joint, top 747.7 ft. MSL or 63.0 ft.
I. Well bottom 742.7 ft. MSL or 68.0 ft.
J. Filter pack, bottom 740.7 ft. MSL or 70.0 ft.
K. Borehole, bottom 715.7 ft. MSL or 95.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☒ 0 4
____ Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0
Concrete ☐ 0 1
____ Other ☐ _ _
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
____ Other ☐ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____% Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 8.7 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.5 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.75 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
3/8 Bentonite chips Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller
Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
224
Tel: 608-831-4444
Fax: 608-831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW10
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 329,954 ft. N, 2,491,918 ft. E. S/C/(N)	Wis. Unique Well No. / DNR Well Number
Facility ID		Date Well Installed: 05/07/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm) Oiden Gonzalez; Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 815.17 ft. MSL

B. Well casing, top elevation 815.00 ft. MSL

C. Land surface elevation 812.5 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 694.5 ft. MSL or 118.0 ft.

F. Fine sand, top 686.5 ft. MSL or 126.0 ft.

G. Filter pack, top 684.5 ft. MSL or 128.0 ft.

H. Screen joint, top 681.5 ft. MSL or 131.0 ft.

I. Well bottom 676.5 ft. MSL or 136.0 ft.

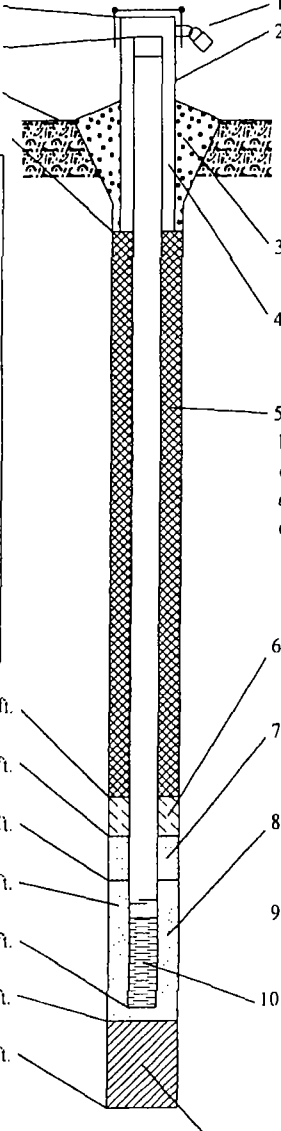
J. Filter pack, bottom 675.5 ft. MSL or 137.0 ft.

K. Borehole, bottom 667.5 ft. MSL or 145.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.94 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Anodized Aluminum; Steel ☐ 0 4; Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0; *Concrete* ☐ *0 1*; Other ☐ _ _

4. Material between well casing and protective pipe: Bentonite ☒ 3 0; Other ☐ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 16.7 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; *Tremie pumped* ☒ 0 2; Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.3 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3; Flush threaded PVC schedule 80 ☒ 2 4; Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4; 3/8 Bentonite chips; Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: 608-831-4444 Fax: 608-831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW10A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 329,944 ft. N, 2,491,920 ft. E. S/C/(N)	Date Well Installed: 05/06/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm) Oiden Gonzalez, Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 814.84 ft. MSL

B. Well casing, top elevation 814.66 ft. MSL

C. Land surface elevation 812.2 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☐ 4 1 / Rotosonic / Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 / Air ☐ 0 1 / Drilling Mud ☐ 0 3 / None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 601.2 ft. MSL or 211.0 ft.

F. Fine sand, top 590.7 ft. MSL or 221.5 ft.

G. Filter pack, top 588.7 ft. MSL or 223.5 ft.

H. Screen joint, top 586.2 ft. MSL or 226.0 ft.

I. Well bottom 581.2 ft. MSL or 231.0 ft.

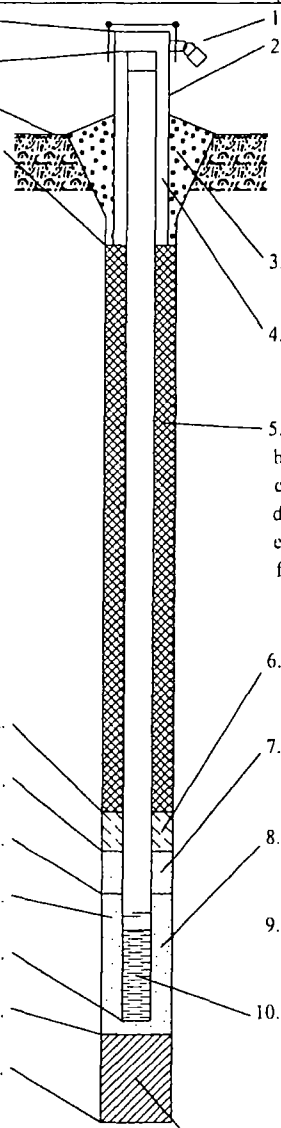
J. Filter pack, bottom 581.2 ft. MSL or 231.0 ft.

K. Borehole, bottom 574.2 ft. MSL or 238.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.94 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4 / Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 3 0 / Concrete ☐ 0 1 / Other ☐ _ _

4. Material between well casing and protective pipe: Bentonite ☒ 3 0 / Other ☐ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 10 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 33.4 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☒ 0 2 / Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 / Flush threaded PVC schedule 80 ☒ 2 4 / Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4 / 3/8 Bentonite chips / Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 226 Tel: 608-831-4444 Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ☐N. ____ ft. ☐S. ☐E. ____ ft. ☐W.	Well Name: MW11A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒	Wis. Unique Well No. / DNR Well Number
Facility ID	Lat. ° ' " Long. ° ' " or St. Plane 328.999 ft. N. 2,491.991 ft. E. S/C/(N)	Date Well Installed: 04/20/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Oiden Gonzalez; Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 799.22 ft. MSL

B. Well casing, top elevation 798.99 ft. MSL

C. Land surface elevation 796.5 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
City of Muskego

E. Bentonite seal, top 619.5 ft. MSL or 177.0 ft.

F. Fine sand, top 614.5 ft. MSL or 182.0 ft.

G. Filter pack, top 612.5 ft. MSL or 184.0 ft.

H. Screen joint, top 610.5 ft. MSL or 186.0 ft.

I. Well bottom 605.5 ft. MSL or 191.0 ft.

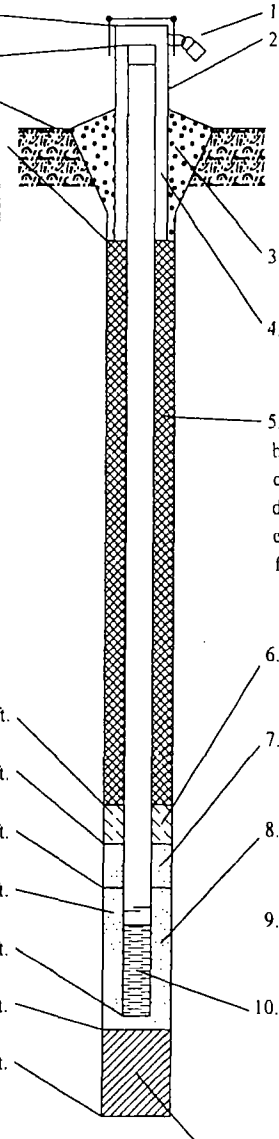
J. Filter pack, bottom 602.5 ft. MSL or 194.0 ft.

K. Borehole, bottom 539.5 ft. MSL or 257.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.94 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Steel ☐ 0 4
Anodized Aluminum Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
____ Other ☐ _ _

4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Sand on top of bentonite Other ☒ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 3.3 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 24 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 2 ft³

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
3/8 Bentonite chips Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: 608-831-4444 Fax: 608-831-3334

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW13S
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 328,730 ft. N, 2,485,099 ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID		Date Well Installed: 04/25/2007
Type of Well: Well Code 11/mw	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm) Matt White
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____ Boart Longyear

A. Protective pipe, top elevation 830.07 ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation 830.1 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):
City of Muskego

E. Bentonite seal, top 821.1 ft. MSL or 9.0 ft.

F. Fine sand, top 816.1 ft. MSL or 14.0 ft.

G. Filter pack, top 814.1 ft. MSL or 16.0 ft.

H. Screen joint, top 812.1 ft. MSL or 18.0 ft.

I. Well bottom 802.1 ft. MSL or 28.0 ft.

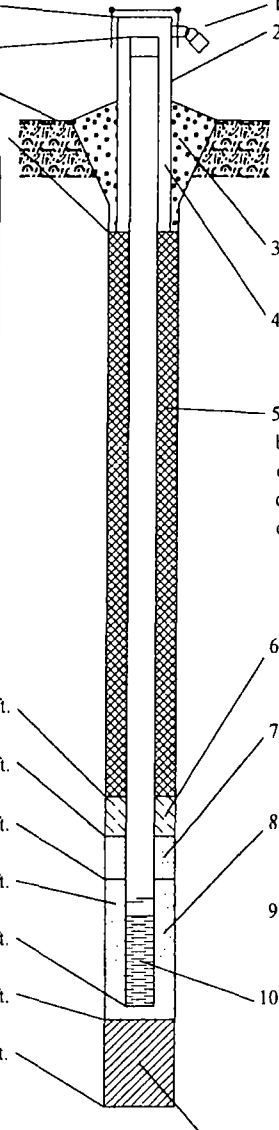
J. Filter pack, bottom 802.1 ft. MSL or 28.0 ft.

K. Borehole, bottom 802.1 ft. MSL or 28.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4
____ Other ☐ _ _
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Flushmount

3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
____ Other ☐ _ _

4. Material between well casing and protective pipe:
Bentonite ☒ 3 0
____ Other ☐ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 3 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4
____ Other ☐ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 228 Tel: 608-831-4444 Fax: 608-831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW13A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 328,732 ft. N, 2,485,106 ft. E. S/C/(N)	Date Well Installed: 04/25/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Matt White / Boart Longyear
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 830.02 ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation 830.0 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☒ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
City of Muskego

E. Bentonite seal, top 651.0 ft. MSL or 179.0 ft.

F. Fine sand, top 646.0 ft. MSL or 184.0 ft.

G. Filter pack, top 644.0 ft. MSL or 186.0 ft.

H. Screen joint, top 642.0 ft. MSL or 188.0 ft.

I. Well bottom 637.0 ft. MSL or 193.0 ft.

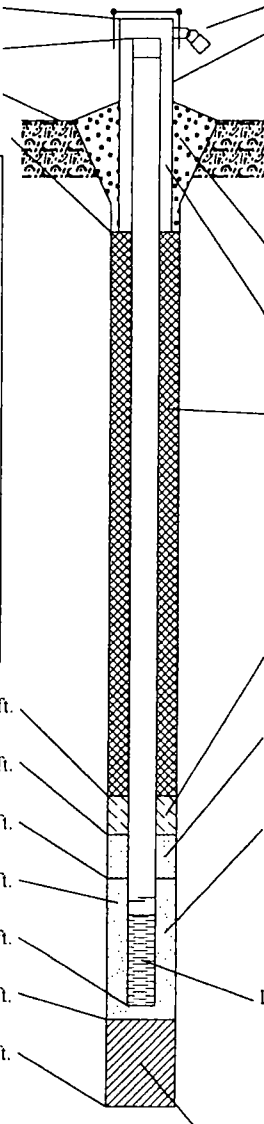
J. Filter pack, bottom 636.0 ft. MSL or 194.0 ft.

K. Borehole, bottom 621.5 ft. MSL or 208.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.94 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4
____ Other ☐ _ _
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Flushmount

3. Surface seal: Bentonite ☐ 3 0
Concrete ☒ 0 1
____ Other ☐ _ _

4. Material between well casing and protective pipe:
Bentonite ☒ 3 0
____ Other ☐ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 12 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 40.1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☒ 0 2
Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.2 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
3/8 Bentonite chips Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: 608-831-4444
Fax: 608-831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW14A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 326,156 ft. N, 2,486,454 ft. E. S/C/(N)	Wis. Unique Well No. / DNR Well Number
Facility ID	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐ E ☐ W	Date Well Installed: 05/01/2007
Type of Well: Well Code 12/pz	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Oiden Gonzalez, Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number:	

A. Protective pipe, top elevation 813.68 ft. MSL

B. Well casing, top elevation 813.48 ft. MSL

C. Land surface elevation 810.7 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top 765.7 ft. MSL or 45.0 ft.

F. Fine sand, top 760.7 ft. MSL or 50.0 ft.

G. Filter pack, top 758.7 ft. MSL or 52.0 ft.

H. Screen joint, top 756.7 ft. MSL or 54.0 ft.

I. Well bottom 751.7 ft. MSL or 59.0 ft.

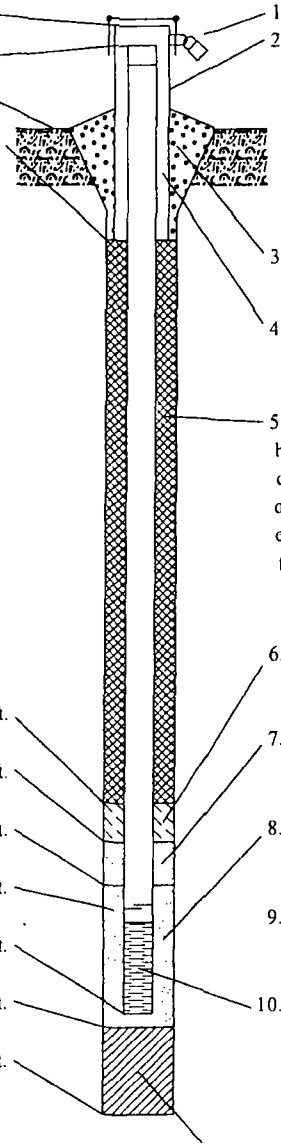
J. Filter pack, bottom 747.7 ft. MSL or 63.0 ft.

K. Borehole, bottom 710.7 ft. MSL or 100.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Steel ☐ 0 4; Anodized Aluminum; Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; ____ Other ☐ _ _

4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Bentonite below filter sand; Other ☒ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 3.3 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 2.2 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; ____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4; 3/8 Bentonite chips; Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: ____ Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: 608-831-4444 Fax: 608-831-3334

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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis Stats., and ch. NR 141, Wis. Adm Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ☐ N. ____ ft. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW15A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 328,169 ft. N, 2,486,375 ft. E. S/C/Ⓝ	Date Well Installed: 05/08/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐ E ☐ W	Well Installed By: (Person's Name and Firm): Mike Hanson; Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 836.96 ft. MSL

B. Well casing, top elevation 836.77 ft. MSL

C. Land surface elevation 834.4 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 760.4 ft. MSL or 74.0 ft.

F. Fine sand, top 755.4 ft. MSL or 79.0 ft.

G. Filter pack, top 753.4 ft. MSL or 81.0 ft.

H. Screen joint, top 751.4 ft. MSL or 83.0 ft.

I. Well bottom 746.4 ft. MSL or 88.0 ft.

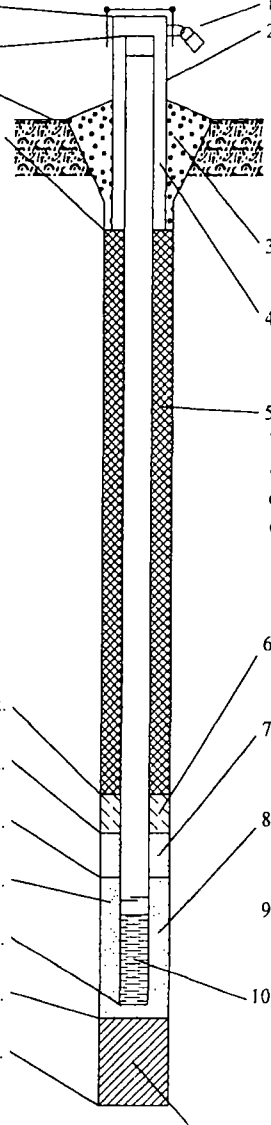
J. Filter pack, bottom 742.4 ft. MSL or 92.0 ft.

K. Borehole, bottom 689.4 ft. MSL or 145.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Anodized Aluminum Steel ☐ 0 4 Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0 Concrete ☐ 0 1 Other ☐ _ _

4. Material between well casing and protective pipe: Bentonite ☐ 3 0
Filter sand Other ☒ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. 12 Lbs/gal mud weight . . . Bentonite slurry ☒ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. 40.1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. ____ _ _
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. ____ _ _
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
____ Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1 4
3/8 Bentonite chips Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Nathaniel R Miller

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717

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Tel: 608-831-4444
Fax: 608-831-3334

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW17
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or St. Plane 328,834 ft. N. 2,489,225 ft. E. S/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐E ☐W	Date Well Installed: 05/03/2007
Type of Well: Well Code 12/pz	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) Mike Hanson; Boart Longyear
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Gov. Lot Number	

A. Protective pipe, top elevation 803.11 ft. MSL
B. Well casing, top elevation 802.63 ft. MSL
C. Land surface elevation 799.7 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

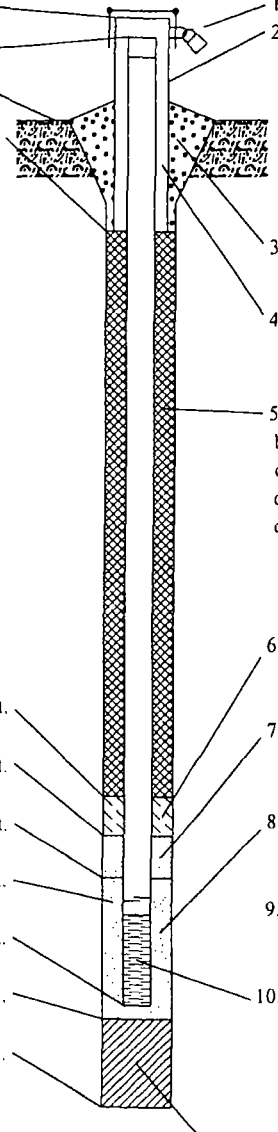
14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☐ 4 1; Rotosonic; Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 736.7 ft. MSL or 63.0 ft.
F. Fine sand, top 716.2 ft. MSL or 83.5 ft.
G. Filter pack, top 714.7 ft. MSL or 85.0 ft.
H. Screen joint, top 712.7 ft. MSL or 87.0 ft.
I. Well bottom 707.7 ft. MSL or 92.0 ft.
J. Filter pack, bottom 705.7 ft. MSL or 94.0 ft.
K. Borehole, bottom 694.7 ft. MSL or 105.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 8.0 ft.
c. Material: Anodized Aluminum; Steel ☐ 0 4; Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 3 0; Concrete ☐ 0 1; ____ Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☐ 3 0; Filter sand; Other ☒ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. 15 % Bentonite . . . Bentonite-cement grout ☒ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1; Tremie pumped ☒ 0 2; Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger Mining Co. 30/100 _ _
b. Volume added 0.3 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; ____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; ____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
3/8 Bentonite chips; Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717 232 Tel: 608-831-4444 Fax: 608-831-3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis Stats., and ch. NR 141, Wis Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis Stats, failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Muskego Landfill	Local Grid Location of Well: ☐N. ft. ☐S. ☐E. ft. ☐W.	Well Name: MW17A
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well Number
Facility ID	St. Plane 328,844 ft. N. 2,489,225 ft. E. S/C/(N)	Date Well Installed: 05/02/2007
Type of Well: Well Code 12/pz	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N. R. ____ ☐E ☐W	Well Installed By: (Person's Name and Firm): Mike Hanson; Boart Longyear
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 802.53 ft. MSL
B. Well casing, top elevation 802.04 ft. MSL
C. Land surface elevation 799.1 ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☐ No

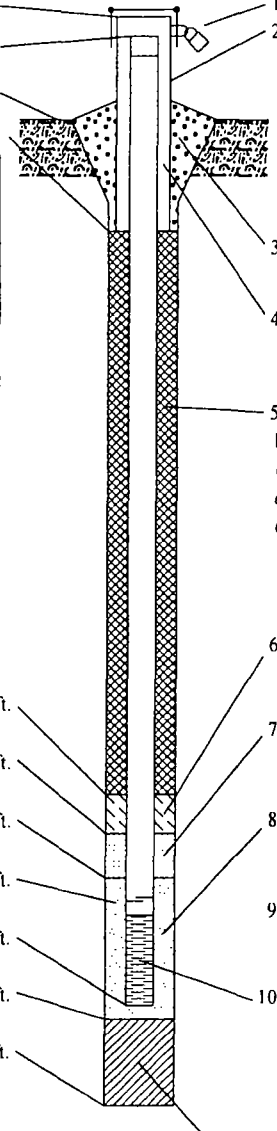
14. Drilling method used: Rotary ☐ 5 0
Hollow Stem Auger ☐ 4 1
Rotosonic Other ☒ _ _

15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1
Drilling Mud ☐ 0 3 None ☐ 9 9

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 659.1 ft. MSL or 140.0 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top 639.1 ft. MSL or 160.0 ft.
H. Screen joint, top 636.1 ft. MSL or 163.0 ft.
I. Well bottom 631.1 ft. MSL or 168.0 ft.
J. Filter pack, bottom 630.1 ft. MSL or 169.0 ft.
K. Borehole, bottom 629.1 ft. MSL or 170.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 1.94 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 0 4
____ Other ☐ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 3 0
Concrete ☐ 0 1
____ Other ☐ _ _
4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
____ Other ☐ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. 15 % Bentonite . . . Bentonite-cement grout ☒ 5 0
e. 26.7 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☐ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. NA _ _
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _ _
b. Volume added 1.3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3
Flush threaded PVC schedule 80 ☒ 2 4
____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
____ Other ☐ _ _
b. Manufacturer Boart Longyear
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 1 4
Cave in (gravel) Other ☒ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm RMT, Inc.
744 Heartland Trail Madison, WI 53717
233
Tel: 608-831-4444
Fax: 608-831-3334

Please complete both forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW01

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	99

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 101.8 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 13.5 gal.

7. Volume of water removed from well 213.7 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	25.39 ft.	25.41 ft.
Date b.	2/1/2006	2/1/2006
Time c.	☒ a.m. 09:20 ☐ p.m.	☒ a.m. 11:20 ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R. Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW01A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	15

3. Time spent developing well 167 min.

4. Depth of well (from top of well casing) 143.6 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 18.9 gal.

7. Volume of water removed from well 250.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	22.31 ft.	22.31 ft.
Date b.	3/22/2006	3/22/2006
Time c.	07:48 ☒ a.m. ☐ p.m.	11:08 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW01B

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	80

3. Time spent developing well 290 min.

4. Depth of well (from top of well casing) 264.8 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 37.2 gal.

7. Volume of water removed from well 405.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	23.60 ft.	23.37 ft.
Date b.	3/15/2006	3/20/2006
Time c.	02:55 ☒ p.m. ☐ a.m.	02:30 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW02

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other _____	☐	99

3. Time spent developing well 125 min.

4. Depth of well (from top of well casing) 94.1 ft.

5. Inside diameter of well 2.05 in.

6. Volume of water in filter pack and well casing 9.0 gal.

7. Volume of water removed from well 340.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	50.71 ft.	50.62 ft.
Date b.	3/14/2006	3/15/2006
Time c.	☐ a.m. 02:00 ☒ p.m.	☐ a.m. 01:08 ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Silty brown	Clear ☒ 20 Turbid ☐ 25 (Describe) Clear/colorless

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Chris Beall
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW03

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	99

3. Time spent developing well: 120 min.

4. Depth of well (from top of well casing): 85.8 ft.

5. Inside diameter of well: 2.07 in.

6. Volume of water in filter pack and well casing: 12.3 gal.

7. Volume of water removed from well: 450.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: NA

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	15.67 ft.	15.64 ft.
Date b.	1/12/2006	1/12/2006
Time c.	☒ a.m. 09:20 ☐ p.m.	☒ a.m. 11:25 ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Light gray to white, very turbid	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Vince Mueller
Layne Northwest

17. *Additional comments on development:*

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW03A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
other _____	☐	

3. Time spent developing well 270 min.

4. Depth of well (from top of well casing) 240.5 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 34.4 gal.

7. Volume of water removed from well 150.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	17.92 ft.	24.17 ft.
Date b.	1/12/2006	1/13/2006
Time c.	11:25 ☒ a.m. ☐ p.m.	06:55 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Gray, very turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) Light gray, turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Vince Mueller
Layne Northwest

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW04

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	99

3. Time spent developing well 103 min.

4. Depth of well (from top of well casing) 65.8 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 7.7 gal.

7. Volume of water removed from well 350.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 22.01 ft.	22.01 ft.
Date	b. 3/22/2006	3/22/2006
Time	c. ☐ a.m. 01:22 ☒ p.m.	☐ a.m. 03:38 ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe) Light gray	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. *Additional comments on development:*

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW04A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
other _____	☐	

3. Time spent developing well: 90 min.

4. Depth of well (from top of well casing): 154.8 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 20.1 gal.

7. Volume of water removed from well: 65.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	24.84 ft.	32.29 ft.
Date b.	3/29/2006	4/3/2006
Time c.	☒ a.m. 08:35 ☐ p.m.	☒ a.m. 08:05 ☐ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Light brown, contains fine sand	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW05

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:
   - surged with bailer and bailed ☐ 41
   - surged with bailer and pumped ☐ 61
   - surged with block and bailed ☐ 42
   - surged with block and pumped ☐ 62
   - surged with block, bailed, and pumped ☐ 70
   - compressed air ☐ 20
   - bailed only ☐ 10
   - pumped only ☐ 51
   - pumped slowly ☐ 50
   - other Surged with pump and pumped ☒ 99

3. Time spent developing well 183 min.

4. Depth of well (from top of well casing) 129.5 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 18.9 gal.

7. Volume of water removed from well 250.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	7.43 ft.	7.43 ft.
Date b.	3/28/2006	3/28/2006
Time c.	☒ a.m. 11:55 ☐ p.m.	☐ a.m. 03:20 ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) White to light gray	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW06

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Surged with pump and pumped	☒	99

3. Time spent developing well 220 min.

4. Depth of well (from top of well casing) 92.8 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 15.1 gal.

7. Volume of water removed from well 225.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. -2.05 ft.	-2.07 ft.
Date	b. 3/21/2006	3/21/2006
Time	c. 09:45 ☒ a.m. ☐ p.m.	01:25 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Gray to light brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name:

Firm:

Street:

City/State/Zip:

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW07

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☒ 62
surged with block, bailed, and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
other _____	☐ __

3. Time spent developing well: 60 min.

4. Depth of well (from top of well casing): 225.5 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 35.9 gal.

7. Volume of water removed from well: 550.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: NA

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	-4.25 ft.	-4.25 ft.
Date b.	3/23/2006	3/24/2006
Time c.	☐ a.m. 04:20 ☒ p.m.	☒ a.m. 08:30 ☐ p.m.
12. Sediment in well bottom	inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Light gray	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Nathaniel Keller
RMT, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Nathaniel R Keller

Print Name: Nathaniel R Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW07S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 270 min.

4. Depth of well (from top of well casing): 56.9 ft.

5. Inside diameter of well: 2.06 in.

6. Volume of water in filter pack and well casing: 10.9 gal.

7. Volume of water removed from well: 45.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	6.50 ft.	-0.05 ft.
Date	b.	4/21/2007	5/15/2007
Time	c.	04:08 ☒ p.m. ☐ a.m.	09:00 ☐ p.m. ☒ a.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Dark gray and brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Light gray and brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
M. White
Boart Longyear E&I

17. Additional comments on development:
Development times also include: Start: 6:30 a.m.; End: 8:30 a.m.

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Ken Quinn (for)

Print Name: Nathaniel Keller

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW08A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well 115 min.

4. Depth of well (from top of well casing) 83.5 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 10.0 gal.

7. Volume of water removed from well 150.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	27.28 ft.	26.37 ft.
Date b.	5/15/2007	5/15/2007
Time c.	☐ a.m. 01:50 ☒ p.m.	☐ a.m. 03:45 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Gray	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
J. Weeks
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel
Firm: Muskego Site Groundwater Remediation Group
Street: N96 W13600 County Line Rd.
City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Ken Lucius (for)
Print Name: Nathaniel Keller
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW09

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 195 min.

4. Depth of well (from top of well casing): 70.5 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 11.5 gal.

7. Volume of water removed from well: 175.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	2.19 ft.	2.19 ft.
Date b.	5/17/2007	5/15/2007
Time c.	07:15 ☒ a.m. ☐ p.m.	10:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Cloudy brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
B. Price
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Ken Quinn (for)

Print Name: Nathaniel Keller

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW10

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 180 min.

4. Depth of well (from top of well casing): 138.3 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 20.5 gal.

7. Volume of water removed from well: 275.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	14.42 ft.	21.73 ft.
Date b.	5/16/2007	5/16/2007
Time c.	☐ a.m. 01:45 ☒ p.m.	☐ a.m. 04:45 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
J. Weeks
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Ken Quinn (for)

Print Name: Nathaniel Keller

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopmen ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW10A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☐	5 1
pumped slowly	☐	5 0
other Waterra pump	☒	– –

3. Time spent developing well: 105 min.

4. Depth of well (from top of well casing): 233.5 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 36.0 gal.

7. Volume of water removed from well: 400.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	16.13 ft.	20.73 ft.
Date b.	5/9/2007	5/9/2007
Time c.	☒ a.m. 11:30 ☐ p.m.	☐ a.m. 01:15 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) Cloudy, light brown	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
O. Gonzalez
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel
Firm: Muskego Site Groundwater Remediation Group
Street: N96 W13600 County Line Rd.
City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____
Print Name: Nathaniel Keller
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW11A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 285 min.

4. Depth of well (from top of well casing): 193.5 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 30.0 gal.

7. Volume of water removed from well: 350.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	12.90 ft.	39.45 ft.
Date b.	4/22/2007	4/22/2007
Time c.	☒ a.m. 09:00 ☐ p.m.	☐ a.m. 01:45 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Dark gray and brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
M. White
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel
Firm: Muskego Site Groundwater Remediation Group
Street: N96 W13600 County Line Rd.
City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____
Print Name: Nathaniel Keller
Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW13S

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 60 min.

4. Depth of well (from top of well casing): 27.7 ft.

5. Inside diameter of well: 2.06 in.

6. Volume of water in filter pack and well casing: 2.0 gal.

7. Volume of water removed from well: 70.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	18.89 ft.	19.00 ft.
Date	b.	5/1/2007	5/1/2007
Time	c.	☐ a.m. 02:40 ☒ p.m.	☐ a.m. 03:40 ☒ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
T. Weisenbeck
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Name: Nathaniel Keller

Firm: RMT, Inc.

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NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopmen ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW13A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 210 min.

4. Depth of well (from top of well casing): 195.5 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 29.0 gal.

7. Volume of water removed from well: 370.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	21.56 ft.	22.00 ft.
Date b.	5/1/2007	5/1/2007
Time c.	☐ a.m. 04:00 ☒ p.m.	☐ a.m. 07:30 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
T. Weisenbeck
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel
Firm: Muskego Site Groundwater Remediation Group
Street: N96 W13600 County Line Rd.
City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]
Print Name: Nathaniel Keller
Firm: RMT, Inc.

256

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW14A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	99

3. Time spent developing well: 90 min.

4. Depth of well (from top of well casing): 62.0 ft.

5. Inside diameter of well: 2.06 in.

6. Volume of water in filter pack and well casing: 10.0 gal.

7. Volume of water removed from well: 160.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	2.40 ft.	2.48 ft.
Date b.	5/8/2007	5/8/2007
Time c.	☐ a.m. 01:15 ☒ p.m.	☐ a.m. 02:45 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Milky brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
B. Price
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Name: Nathaniel Keller

Firm: RMT, Inc.

256

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW15A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 110 min.

4. Depth of well (from top of well casing): 91.1 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 11.0 gal.

7. Volume of water removed from well: 170.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	25.68 ft.	26.20 ft.
Date b.	5/15/2007	5/15/2007
Time c.	☒ a.m. 11:15 ☐ p.m.	☐ a.m. 01:05 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
J. Weeks
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Nathaniel Keller

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW17

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Waterra pump	☒	--

3. Time spent developing well: 180 min.

4. Depth of well (from top of well casing): 88.8 ft.

5. Inside diameter of well: 1.94 in.

6. Volume of water in filter pack and well casing: 15.0 gal.

7. Volume of water removed from well: 220.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	-0.12 ft.	45.74 ft.
Date	b.	5/16/2007	5/16/2007
Time	c.	10:00 ☒ a.m. ☐ p.m.	01:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe) Gray and brown	Clear ☐ 20 Turbid ☒ 25 (Describe) Gray and brown

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids		mg/l	mg/l
15. COD		mg/l	mg/l

16. Well developed by: Person's Name and Firm
J. Weeks
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature]

Print Name: Nathaniel Keller

Firm: RMT, Inc.

258

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	County	Well Name
Muskego Landfill	Waukesha	MW17A

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	68		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed, and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
other Artesian well	☒	--

3. Time spent developing well 180 min.

4. Depth of well (from top of well casing) 170.0 ft.

5. Inside diameter of well 1.94 in.

6. Volume of water in filter pack and well casing 28.0 gal.

7. Volume of water removed from well 325.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	ft.	ft.
Date b.	5/8/2007	5/8/2007
Time c.	☒ a.m. 09:15 ☐ p.m.	☐ a.m. 12:15 ☒ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
B. Price
Boart Longyear E&I

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: Larry Buechel

Firm: Muskego Site Groundwater Remediation Group

Street: N96 W13600 County Line Rd.

City/State/Zip: Germantown, Wisconsin 53022

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [signature] (for)

Print Name: Nathaniel Keller

Firm: RMT, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

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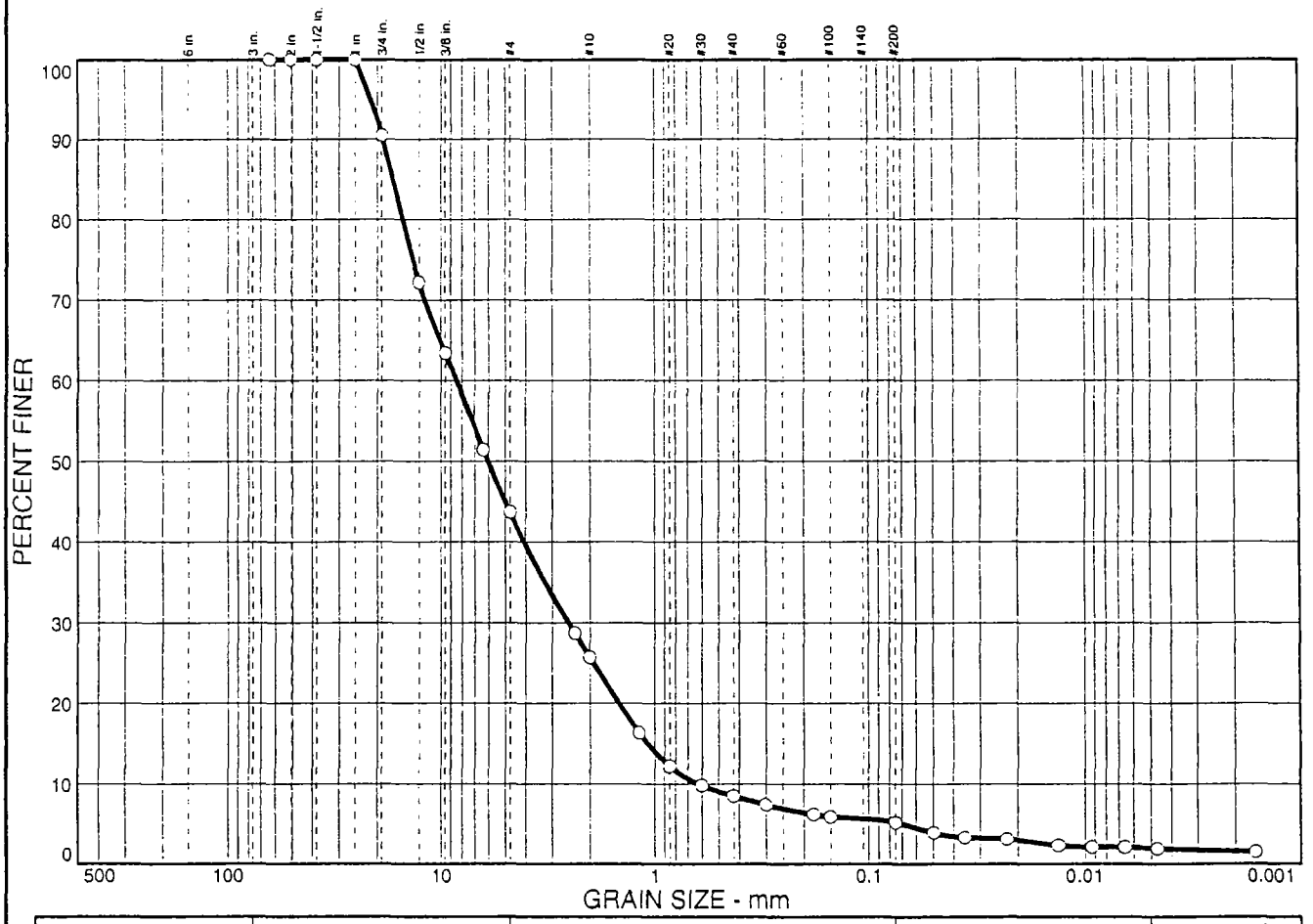
Appendix E
Grain-Size Analysis Reports

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	56.3	38.5	3.3	1.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	90.5		
.5 in.	72.2		
.375 in.	63.4		
.25 in.	51.4		
#4	43.7		
#8	28.7		
#10	25.7		
#16	16.3		
#20	12.2		
#30	9.8		
#40	8.5		
#50	7.4		
#80	6.2		
#100	5.9		
#200	5.2		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 16.8 D_{60}= 8.47 D_{50}= 6.04
D_{30}= 2.53 D_{15}= 1.08 D_{10}= 0.625
C_u= 13.56 C_c= 1.21

Classification

USCS= AASHTO=

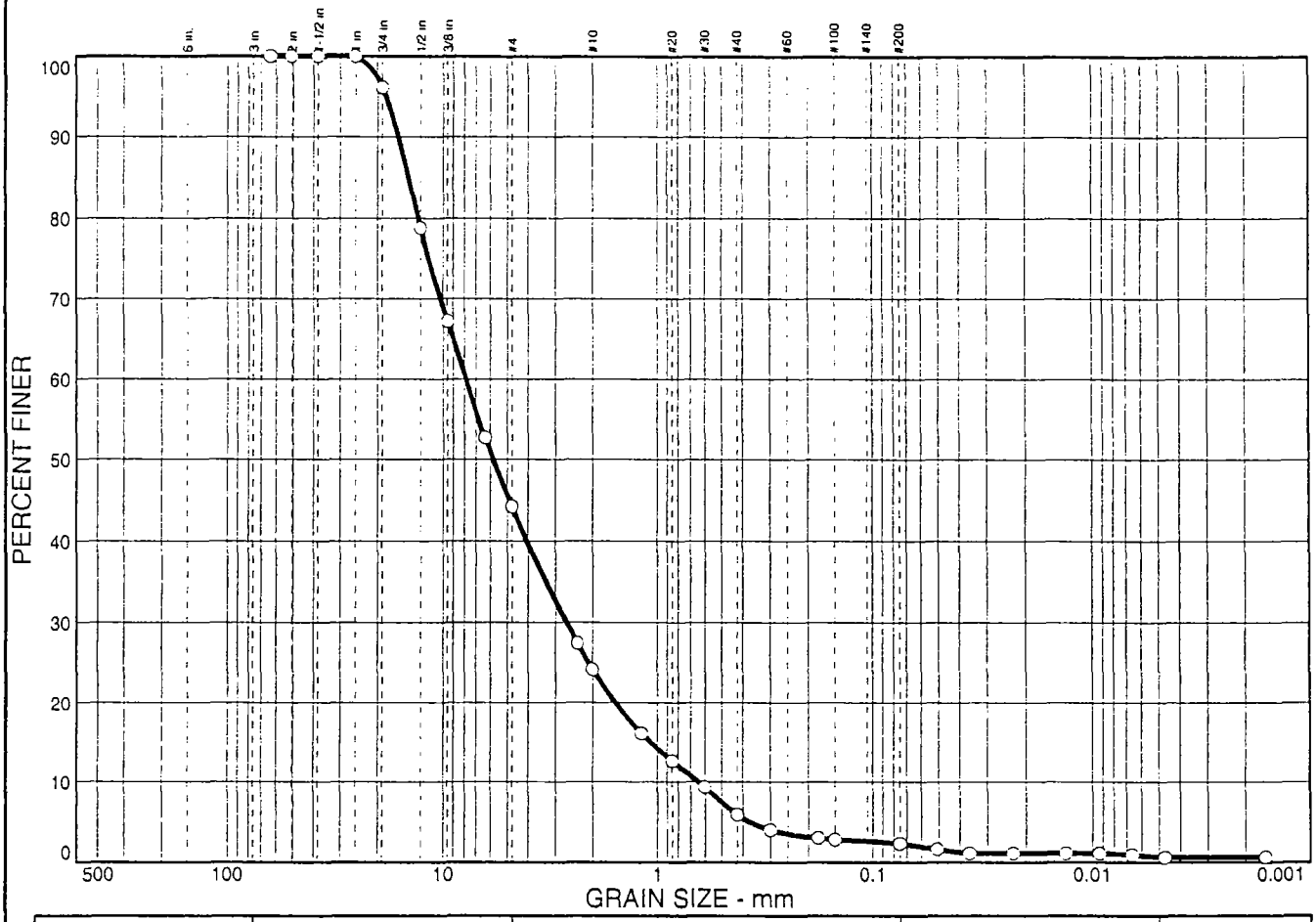
Remarks

Sample No.: MW01, 94-99' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 1/18

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	55.8	41.9	1.6	0.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	96.1		
.5 in.	78.8		
.375 in.	67.2		
.25 in.	52.7		
#4	44.2		
#8	27.4		
#10	24.1		
#16	16.1		
#20	12.6		
#30	9.3		
#40	5.9		
#50	4.0		
#80	3.0		
#100	2.8		
#200	2.3		

* (no specification provided)

Material Description

Well-graded gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 14.5 D_{60}= 7.85 D_{50}= 5.82
D_{30}= 2.66 D_{15}= 1.07 D_{10}= 0.644
C_u= 12.18 C_c= 1.40

Classification

USCS= GW AASHTO=

Remarks

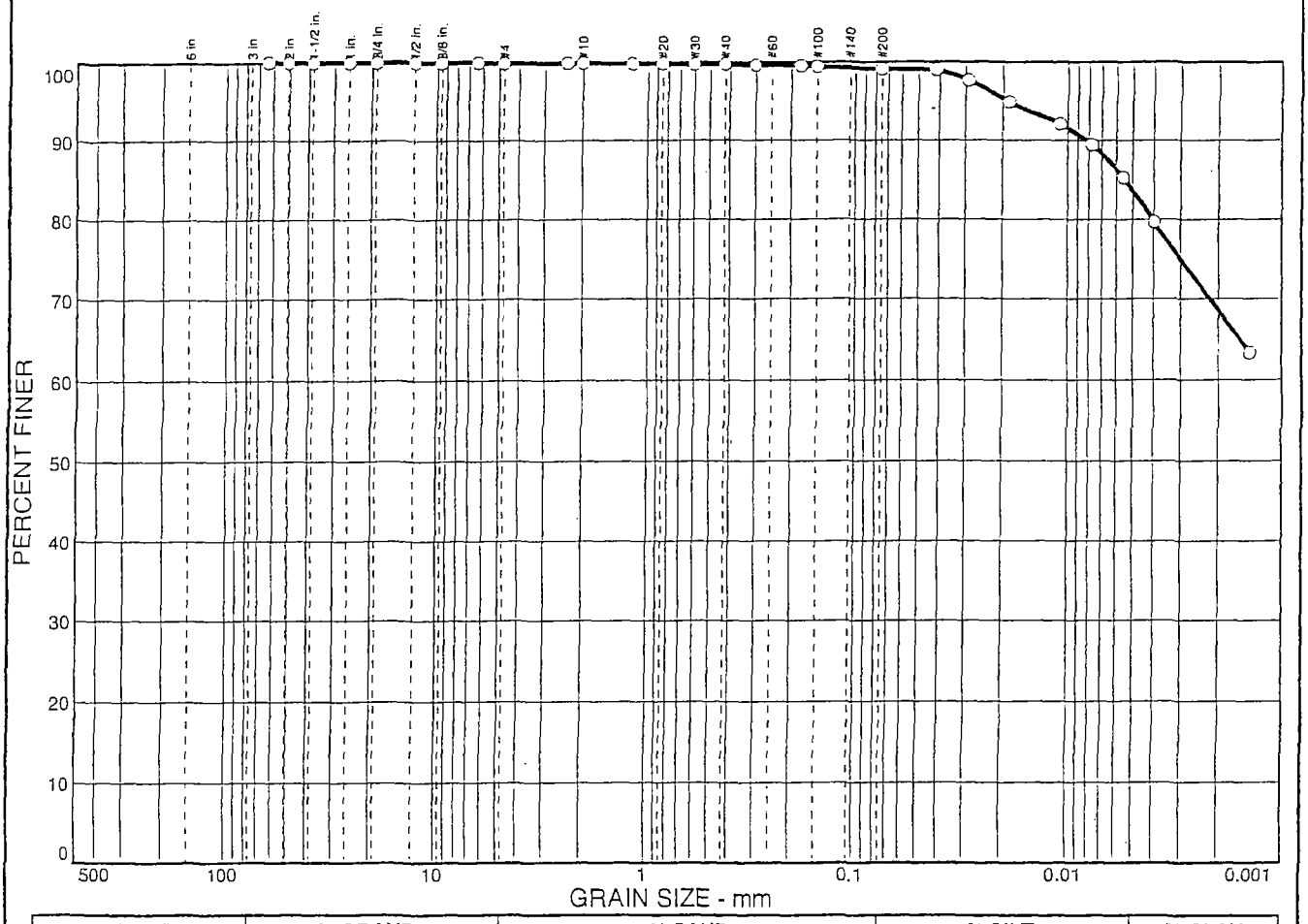
Sample No.: MW1A, 136-141' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 2

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	0.8	15.5	83.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	99.9		
#8	99.9		
#10	99.9		
#16	99.8		
#20	99.8		
#30	99.7		
#40	99.7		
#50	99.6		
#80	99.5		
#100	99.4		
#200	99.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0055 D_{60}= D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

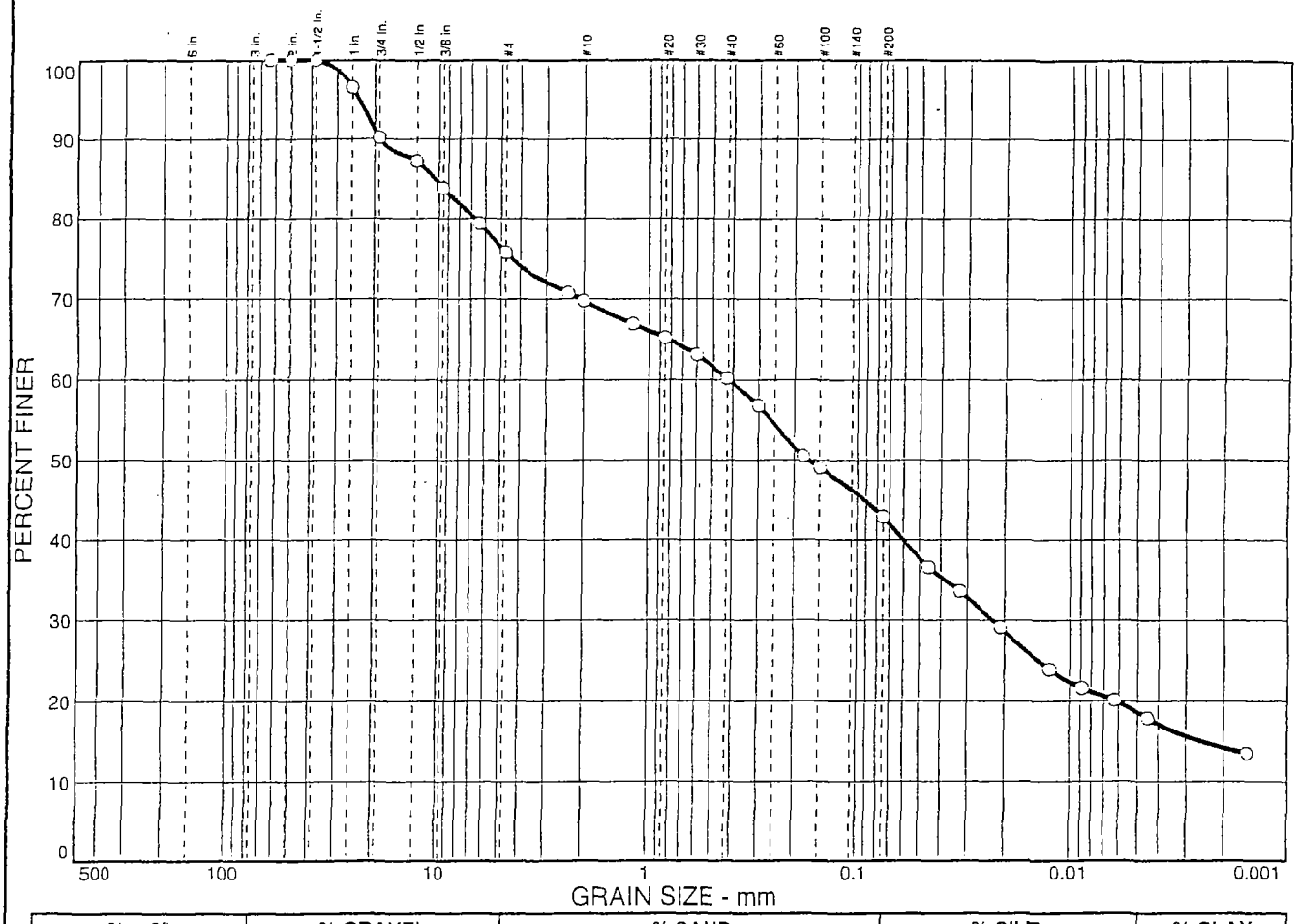
Remarks

Sample No.: MW-3, 64' Source of Sample: MW Date: 1/12/06
Location: Elev./Depth:

RMT, Inc.

Client:
Project: Muskego Landfill
Project No: 7133.02 Figure: 3

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	24.2	32.9	24.2	18.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	96.6		
.75 in.	90.2		
.5 in.	87.2		
.375 in.	83.8		
.25 in.	79.4		
#4	75.8		
#8	70.8		
#10	69.8		
#16	66.9		
#20	65.2		
#30	63.1		
#40	60.2		
#50	56.8		
#80	50.5		
#100	49.0		
#200	42.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 10.4 D_{60}= 0.416 D_{50}= 0.170
D_{30}= 0.0227 D_{15}= 0.0025 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

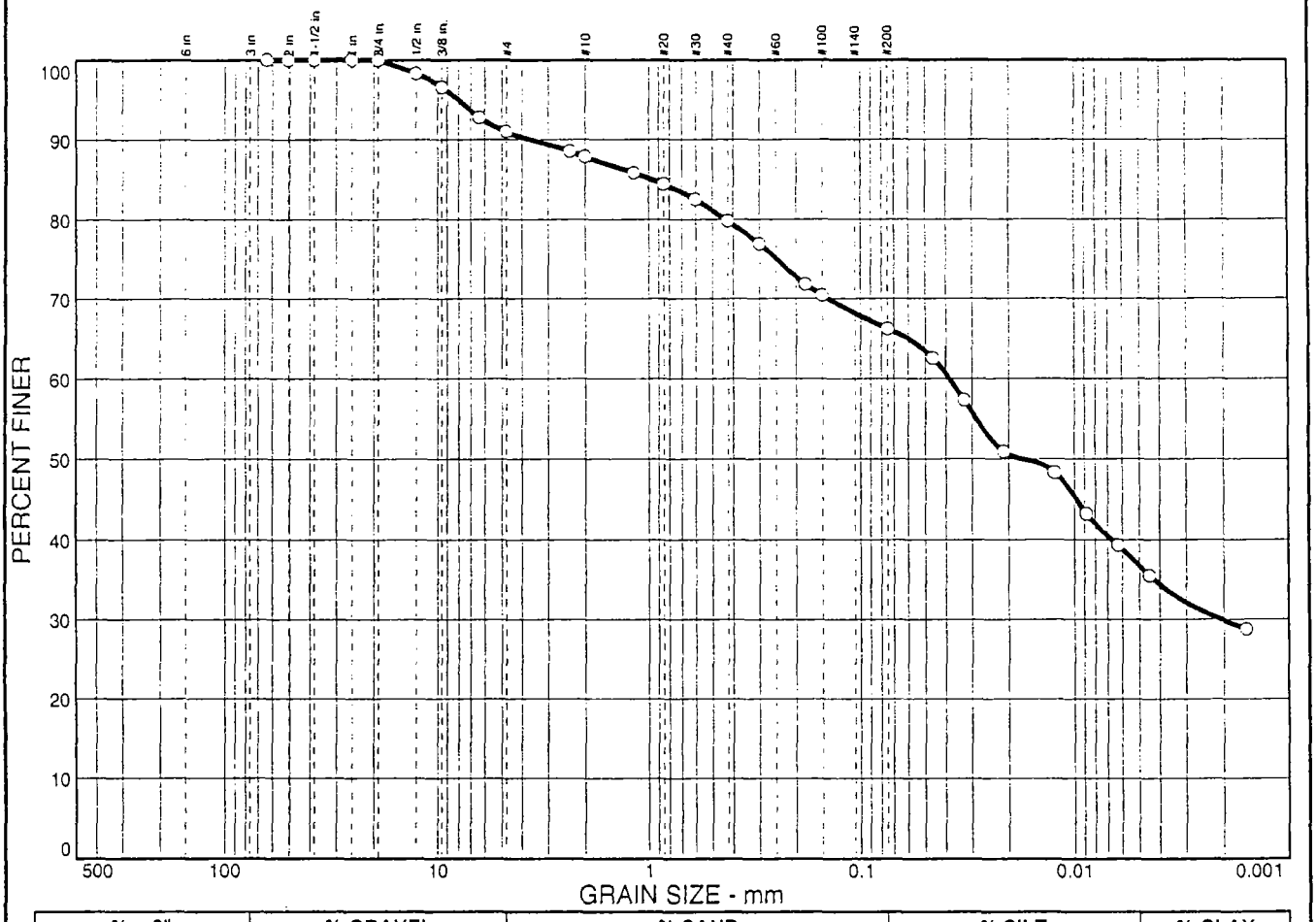
Remarks

Sample No.: MW-3A, 128-138' Source of Sample: MW Date: 1/12/06
Location: Elev./Depth:

RMT, Inc.	Client: Project: Muskego Landfill Project No: 7133.02 Figure: 4

✓ HW JH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	9.0	24.8	29.5	36.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	98.3		
.375 in.	96.6		
.25 in.	92.8		
#4	91.0		
#8	88.5		
#10	87.8		
#16	85.8		
#20	84.4		
#30	82.5		
#40	79.8		
#50	76.9		
#80	71.8		
#100	70.4		
#200	66.2		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.972 D_{60}= 0.0385 D_{50}= 0.0175
D_{30}= 0.0021 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

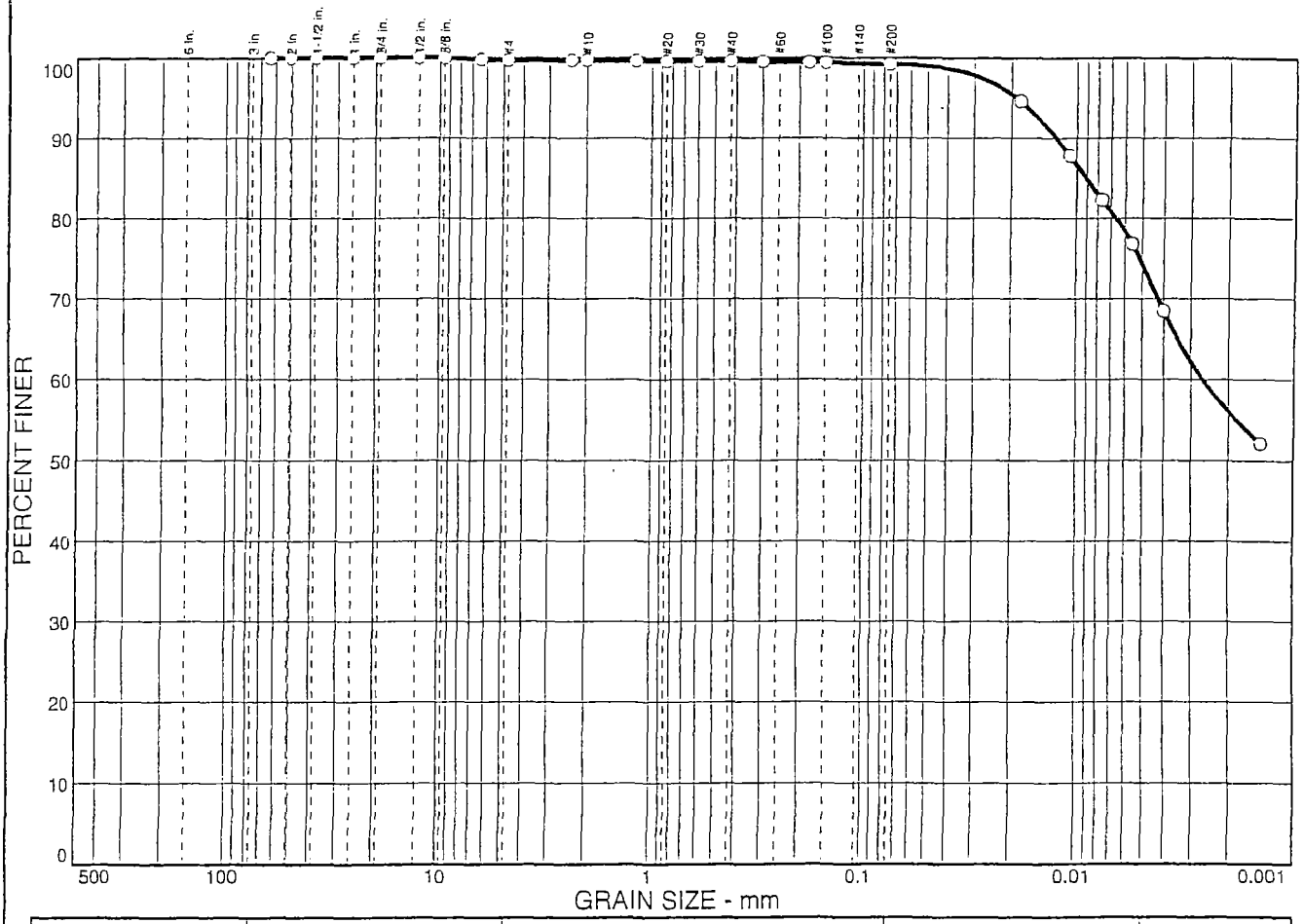
Remarks

Sample No.: MW03A, 258-268' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 5

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.3	0.5	24.8	74.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	99.8		
#4	99.7		
#8	99.7		
#10	99.7		
#16	99.6		
#20	99.6		
#30	99.6		
#40	99.6		
#50	99.5		
#80	99.4		
#100	99.4		
#200	99.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0091 D_{60}= 0.0026 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

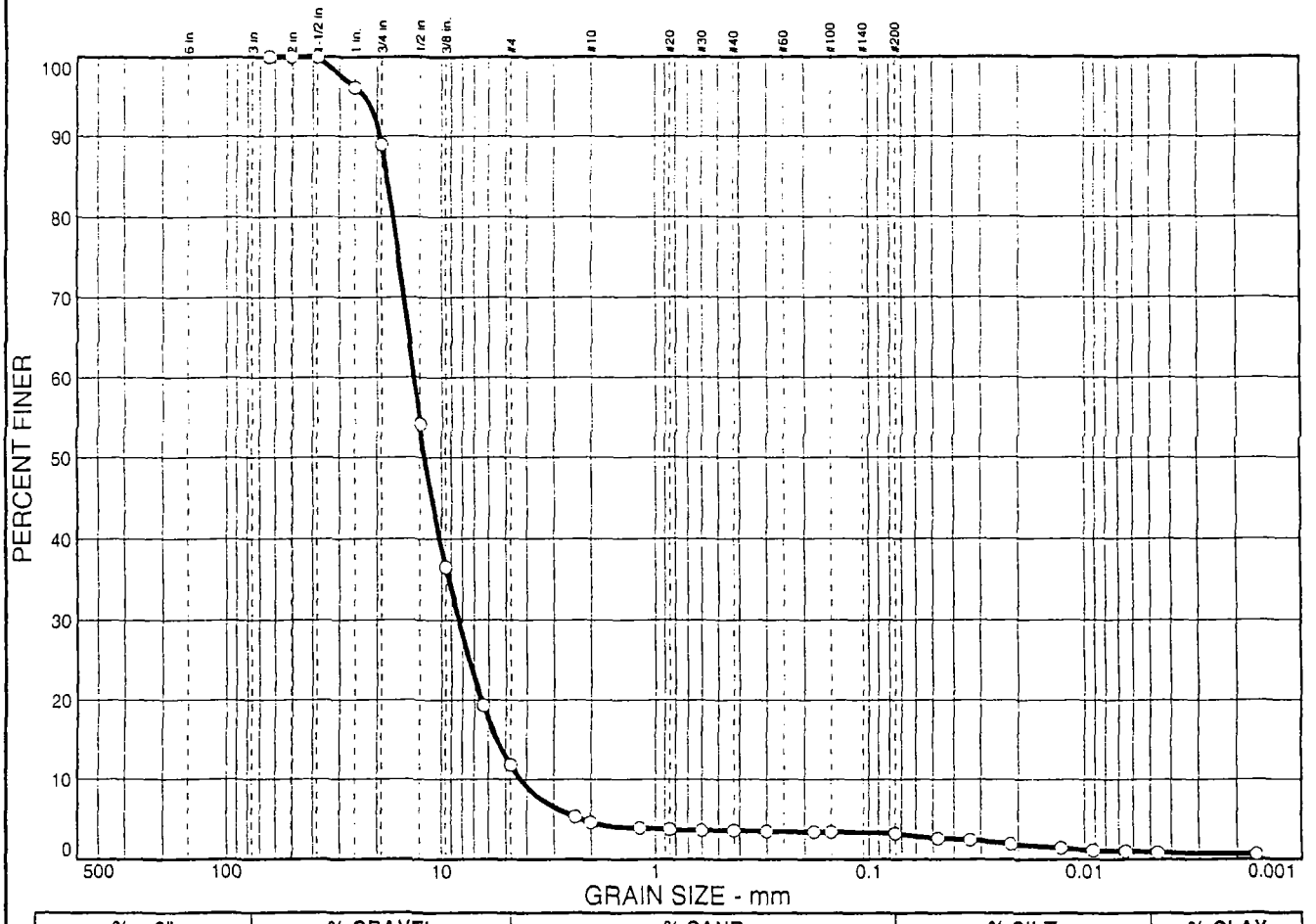
USCS= AASHTO=

Remarks

Sample No.: MW-7, 158-168' Source of Sample: MW Date: 1/12/06
Location: Elev./Depth:

RMT, Inc.	Client:
	Project: Muskego Landfill
	Project No: 7133.02 Figure: 6

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	88.2	8.6	2.4	0.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	96.1		
.75 in.	88.9		
.5 in.	54.1		
.375 in.	36.5		
.25 in.	19.3		
#4	11.8		
#8	5.3		
#10	4.6		
#16	3.9		
#20	3.7		
#30	3.6		
#40	3.6		
#50	3.5		
#80	3.4		
#100	3.4		
#200	3.2		

* (no specification provided)

Material Description

Poorly graded gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 17.9 D_{60}= 13.6 D_{50}= 12.0
D_{30}= 8.31 D_{15}= 5.48 D_{10}= 4.27
C_u= 3.18 C_c= 1.19

Classification

USCS= GP AASHTO=

Remarks

Sample No.: MW07, 219-221' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 7

GRAIN SIZE DISTRIBUTION TEST REPORT

% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	15.2	33.0	28.2	23.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	94.8		
.5 in.	91.0		
.375 in.	89.9		
.25 in.	86.7		
#4	84.8		
#8	80.7		
#10	79.9		
#16	76.9		
#20	75.1		
#30	72.9		
#40	69.5		
#50	65.1		
#80	57.8		
#100	56.3		
#200	51.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 4.91 D_{60}= 0.214 D_{50}= 0.0648
D_{30}= 0.0098 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

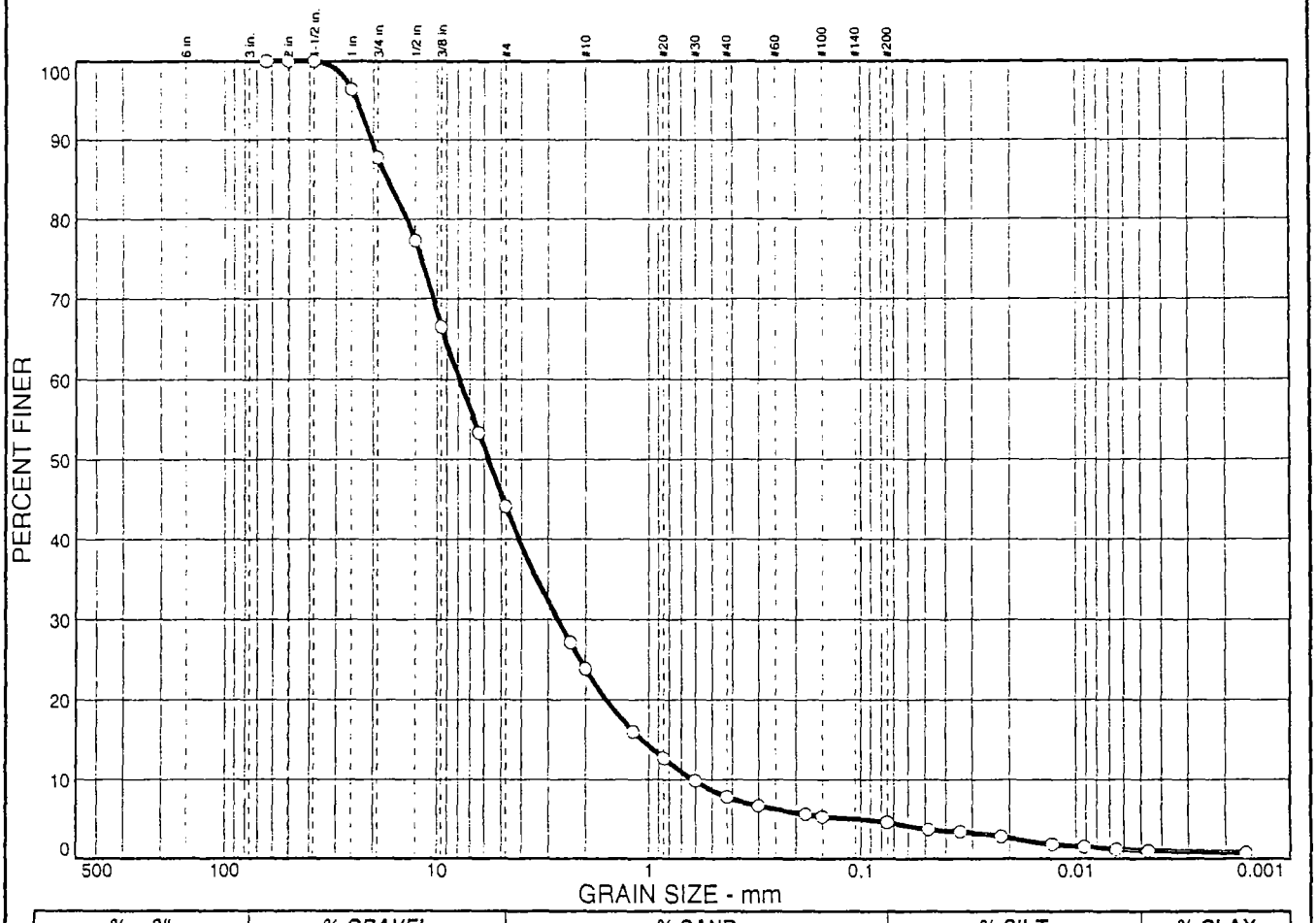
Remarks

Sample No.: MW-7, 238-248' Source of Sample: MW Date: 1/12/06
Location: Elev./Depth:

RMT, Inc.

Client:
Project: Muskego Landfill
Project No: 7133.02 Figure: 8

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	55.9	39.5	3.6	1.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	96.4		
.75 in.	87.7		
.5 in.	77.3		
.375 in.	66.5		
.25 in.	53.3		
#4	44.1		
#8	27.1		
#10	23.8		
#16	16.0		
#20	12.7		
#30	9.8		
#40	7.8		
#50	6.7		
#80	5.6		
#100	5.3		
#200	4.6		

* (no specification provided)

Material Description

Well-graded gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 17.2 D_{60}= 7.87 D_{50}= 5.73
D_{30}= 2.71 D_{15}= 1.08 D_{10}= 0.617
C_u= 12.77 C_c= 1.51

Classification

USCS= GW AASHTO=

Remarks

Sample No.: MW09, 65-74' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

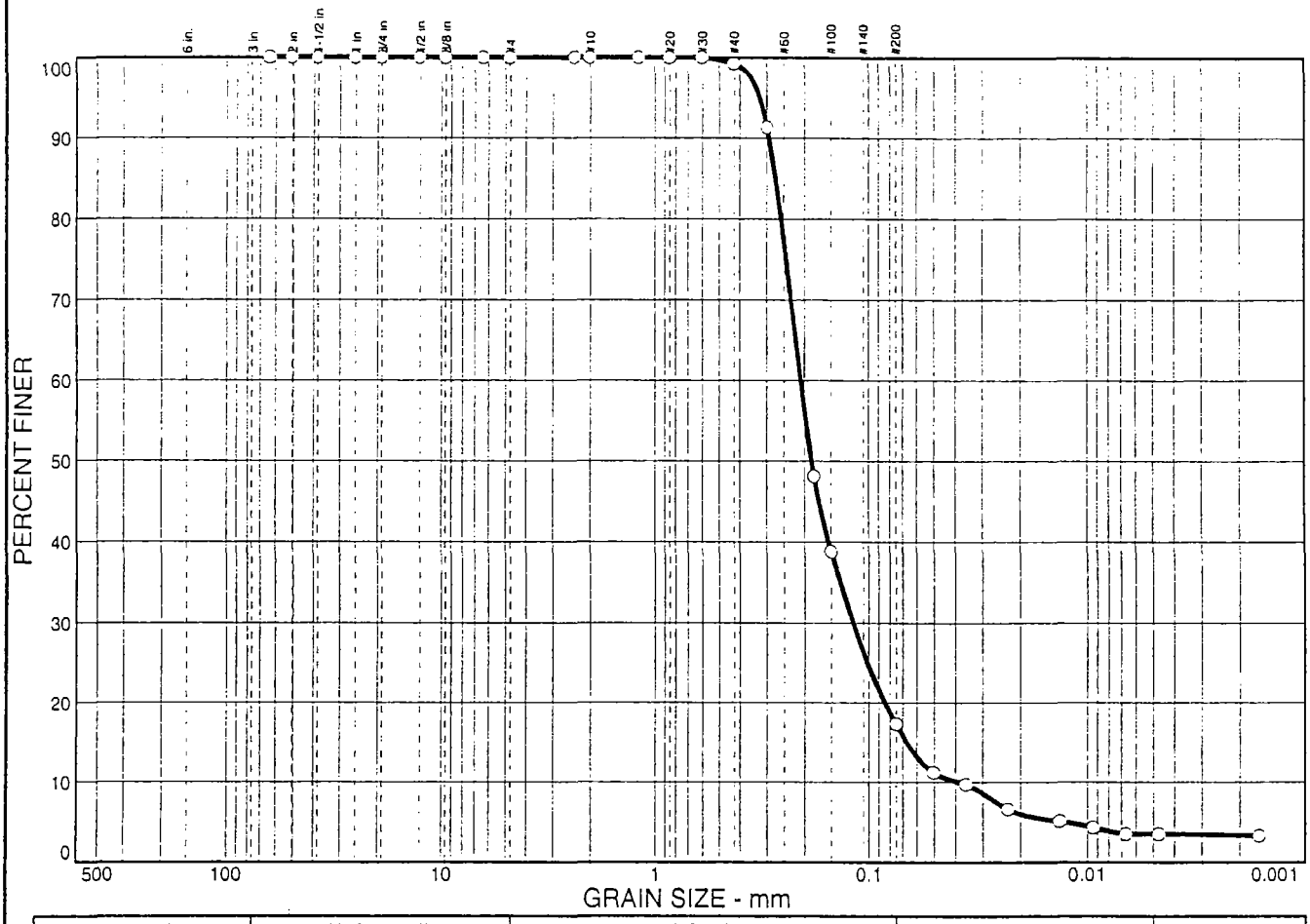
RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03

Figure: 9

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	82.7	13.8	3.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	100.0		
#30	100.0		
#40	99.2		
#50	91.3		
#80	48.1		
#100	38.8		
#200	17.3		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.274 D_{60}= 0.208 D_{50}= 0.185
D_{30}= 0.119 D_{15}= 0.0668 D_{10}= 0.0385
C_u= 5.41 C_c= 1.76

Classification

USCS= AASHTO=

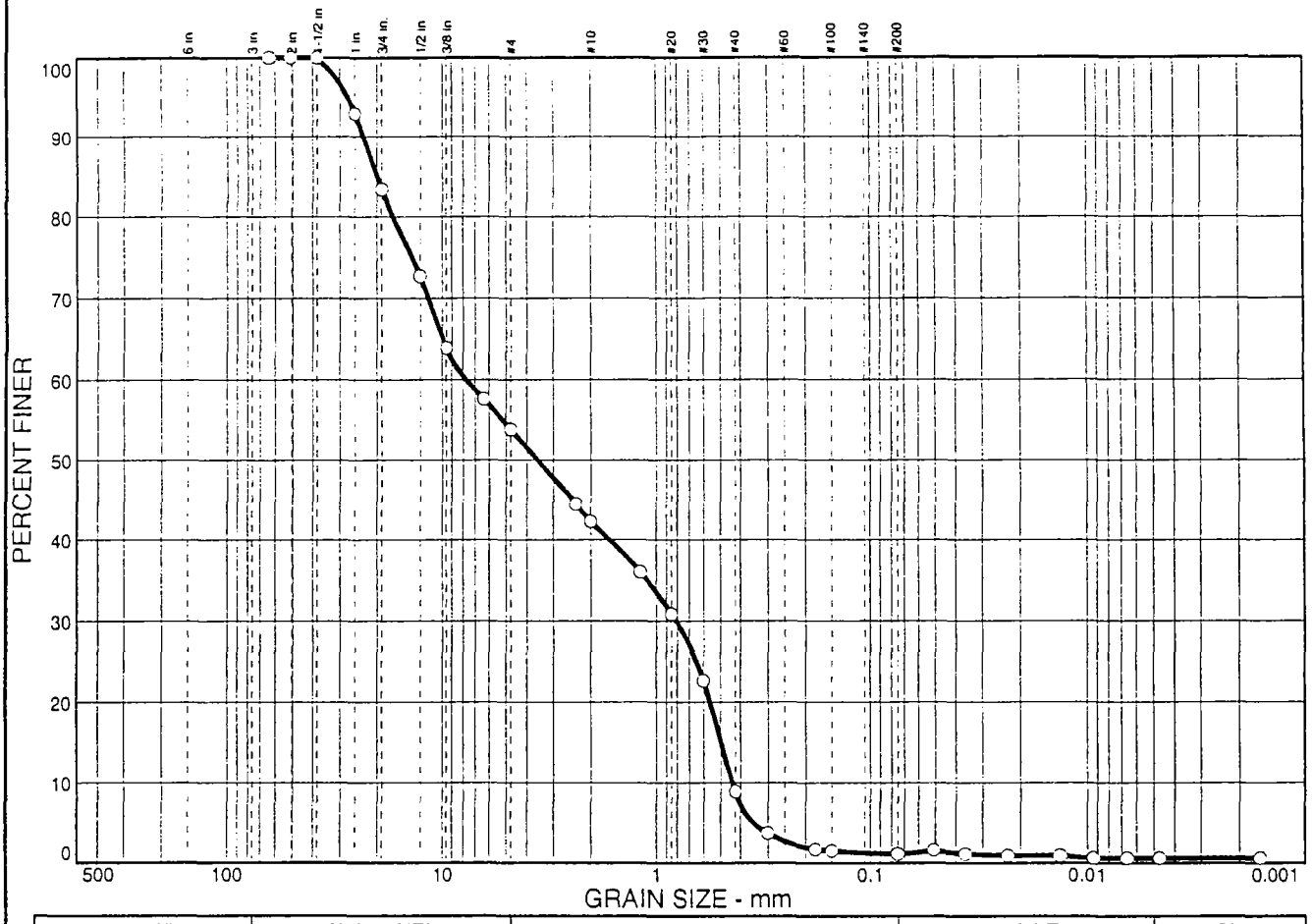
Remarks

Sample No.: MW09, 80-83' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 10

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	46.2	52.7	0.5	0.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	92.9		
.75 in.	83.4		
.5 in.	72.7		
.375 in.	63.9		
.25 in.	57.6		
#4	53.8		
#8	44.5		
#10	42.3		
#16	36.0		
#20	30.8		
#30	22.6		
#40	8.9		
#50	3.7		
#80	1.7		
#100	1.5		
#200	1.1		

* (no specification provided)

Material Description

Poorly graded sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 20.0 D_{60}= 7.74 D_{50}= 3.57
D_{30}= 0.812 D_{15}= 0.499 D_{10}= 0.440
C_u= 17.61 C_c= 0.19

Classification

USCS= SP AASHTO=

Remarks

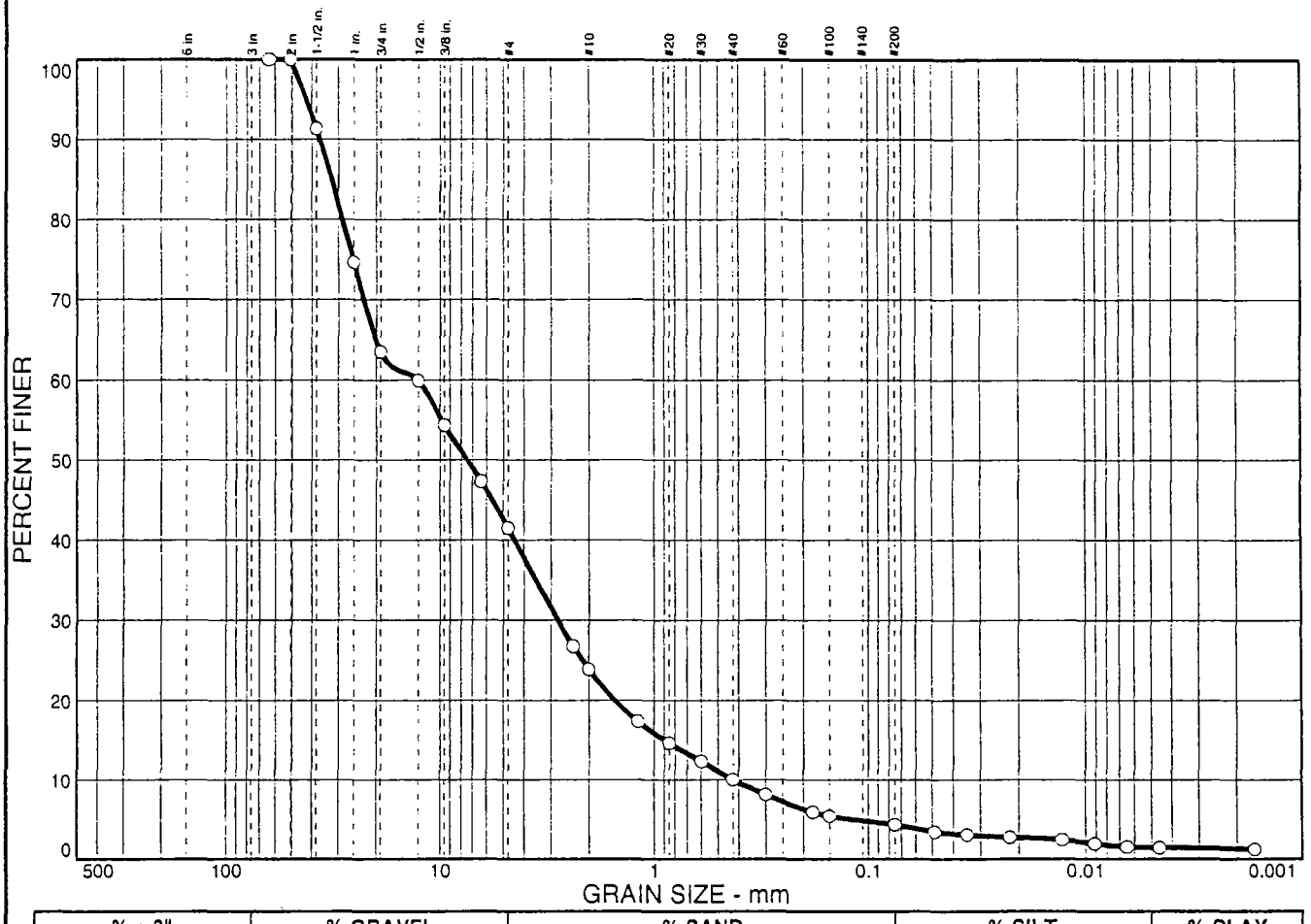
Sample No.: MW-10, 131-137' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 11

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	58.5	37.2	2.9	1.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	91.3		
1.0 in.	74.6		
.75 in.	63.5		
.5 in.	59.9		
.375 in.	54.3		
.25 in.	47.3		
#4	41.5		
#8	26.7		
#10	23.8		
#16	17.3		
#20	14.6		
#30	12.3		
#40	10.0		
#50	8.1		
#80	5.9		
#100	5.4		
#200	4.3		

* (no specification provided)

Material Description

Well-graded gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 32.3 D_{60}= 12.8 D_{50}= 7.47
D_{30}= 2.79 D_{15}= 0.898 D_{10}= 0.425
C_u= 30.15 C_c= 1.43

Classification

USCS= GW AASHTO=

Remarks

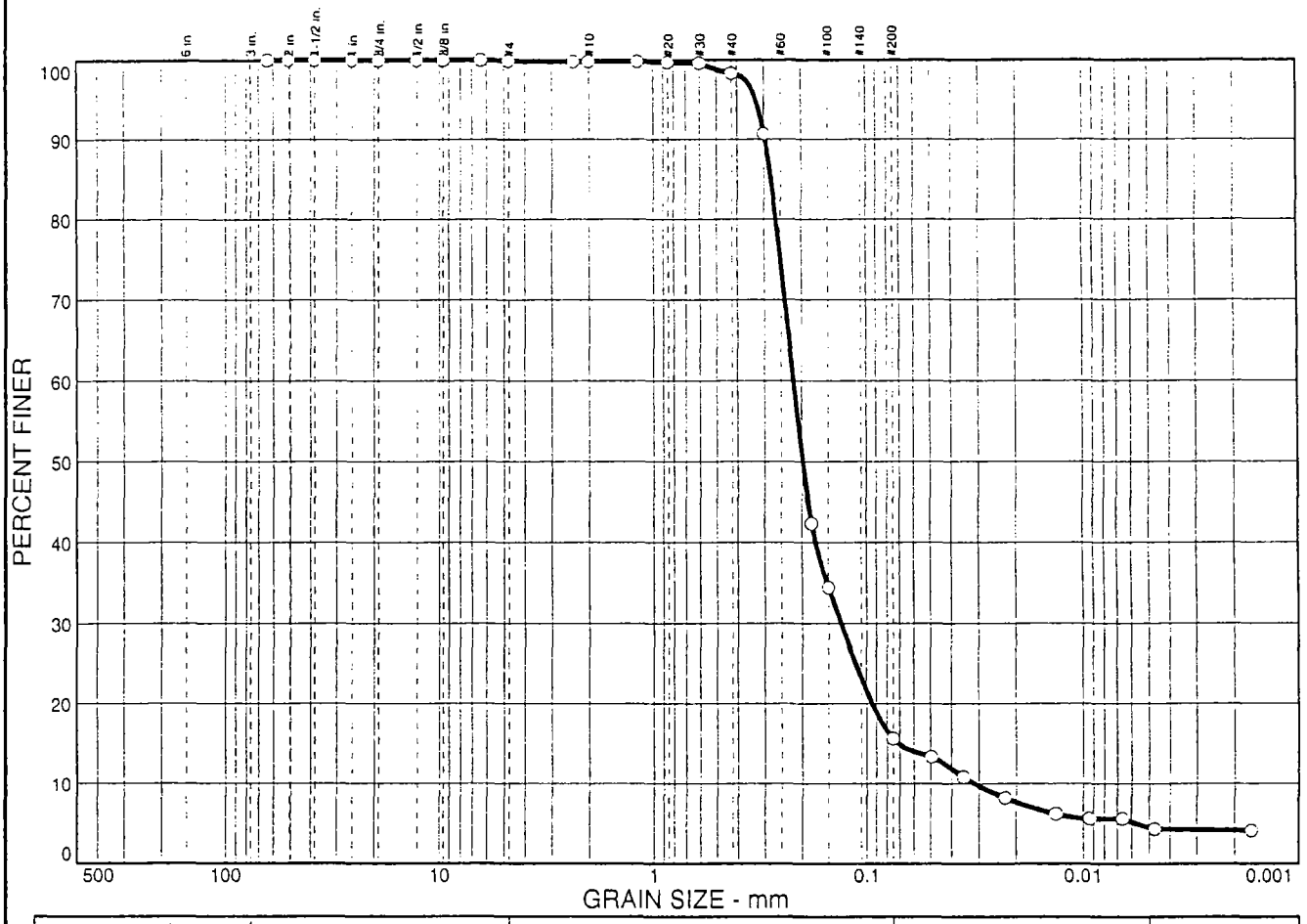
Sample No.: MW10A, 226-231' Source of Sample: MW Date: 06-21-07
Location: Elev./Depth:

RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 12

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	84.3	11.1	4.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	99.9		
#8	99.8		
#10	99.8		
#16	99.8		
#20	99.7		
#30	99.6		
#40	98.3		
#50	90.7		
#80	42.3		
#100	34.4		
#200	15.6		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.278 D_{60}= 0.219 D_{50}= 0.198
D_{30}= 0.131 D_{15}= 0.0710 D_{10}= 0.0316
C_u= 6.93 C_c= 2.50

Classification

USCS= AASHTO=

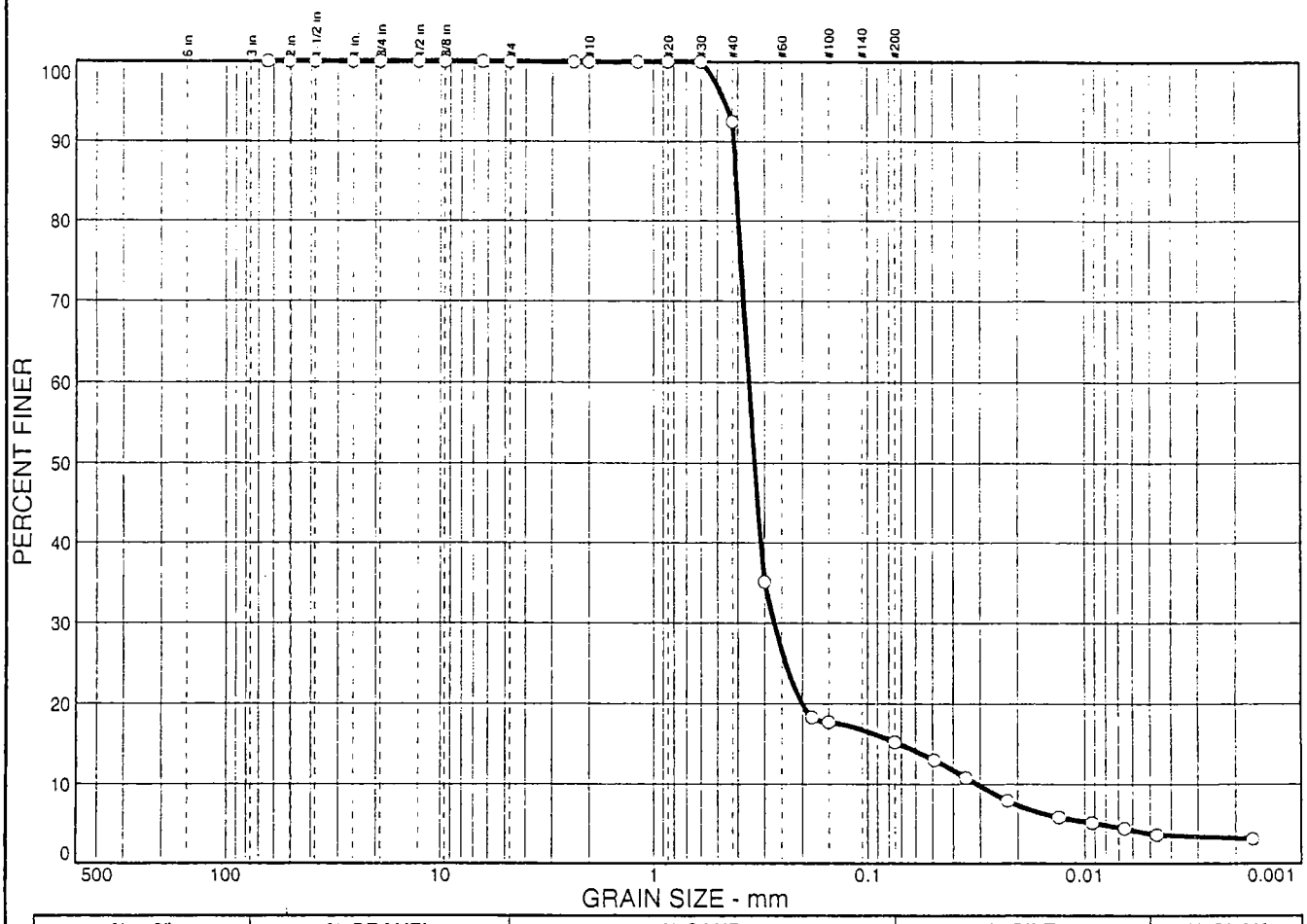
Remarks

Sample No.: MW11A, 185-195' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 13

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	84.8	11.4	3.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	100.0		
#30	100.0		
#40	92.5		
#50	35.1		
#80	18.3		
#100	17.7		
#200	15.2		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.408 D_{60}= 0.356 D_{50}= 0.335
D_{30}= 0.271 D_{15}= 0.0719 D_{10}= 0.0311
C_u= 11.45 C_c= 6.65

Classification

USCS= AASHTO=

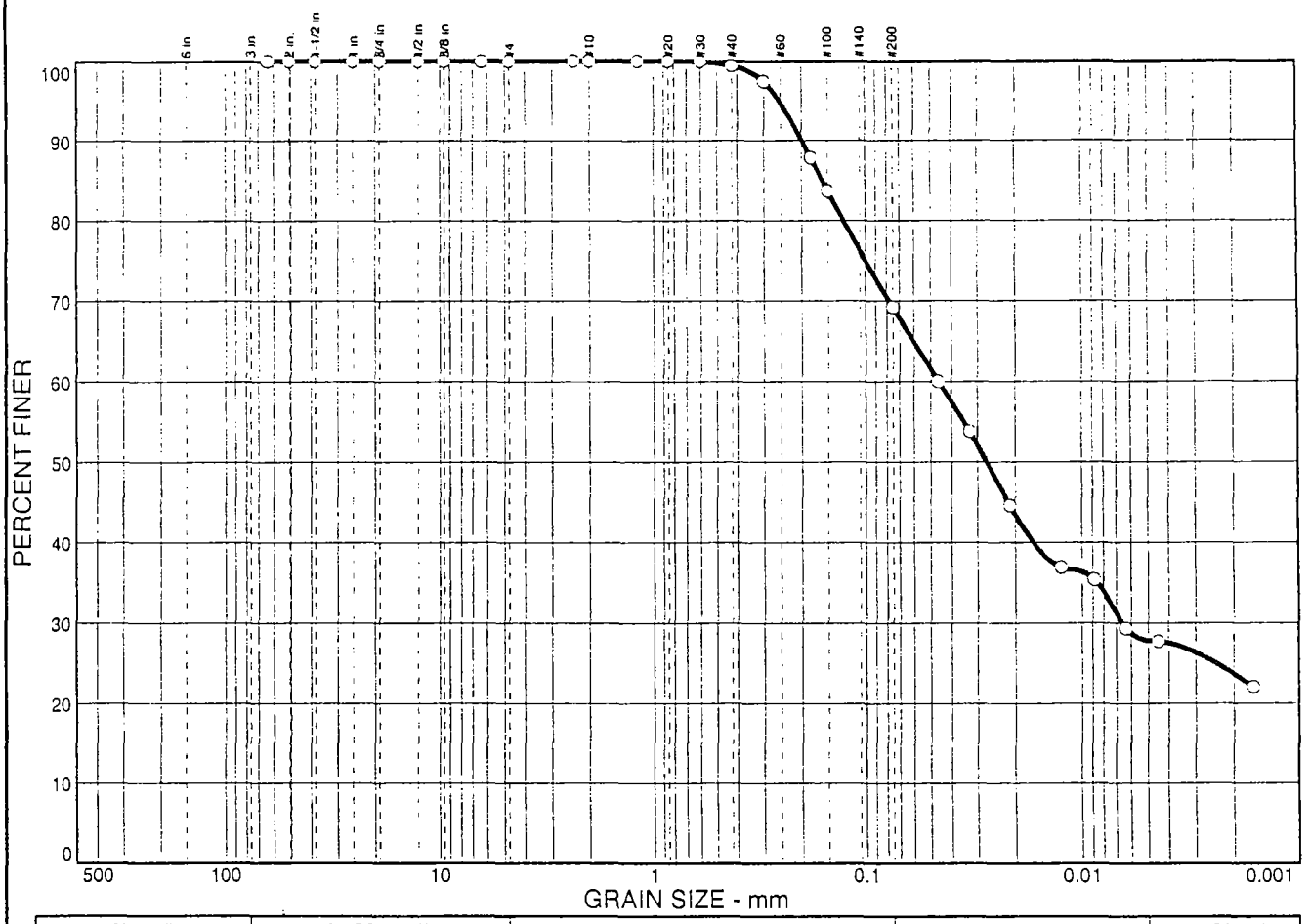
Remarks

Sample No.: MW15A, 83-88' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 14

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	30.8	41.4	27.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	100.0		
#20	100.0		
#30	99.9		
#40	99.4		
#50	97.4		
#80	87.8		
#100	83.7		
#200	69.2		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.159 D_{60}= 0.0458 D_{50}= 0.0273
D_{30}= 0.0066 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sample No.: MW-15A, 135-145' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

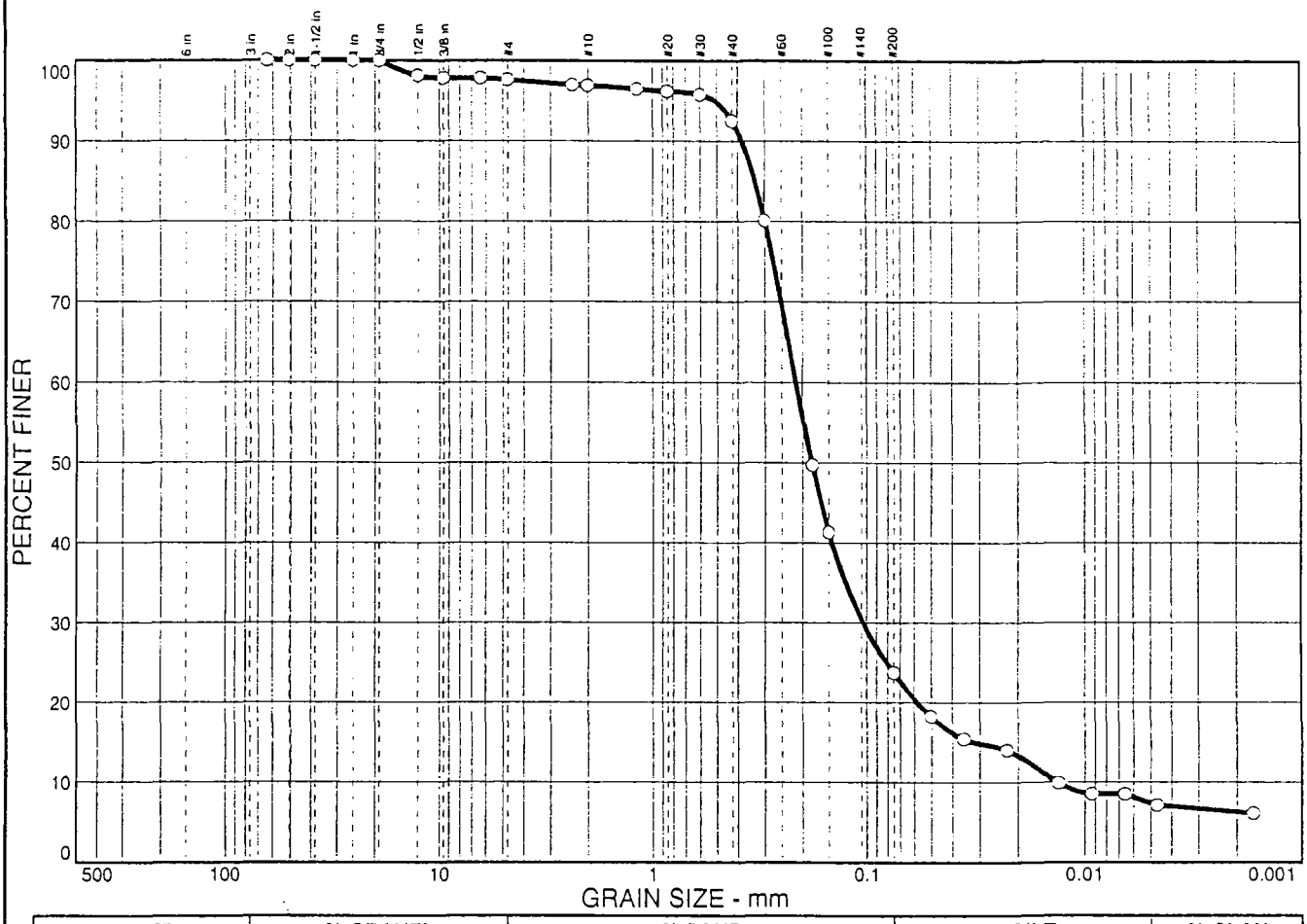
RMT, Inc.

Madison, Wisconsin

Client:
Project: MSGRG

Project No: 7133.03 Figure: 15

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	2.4	73.9	16.3	7.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	98.1		
.375 in.	97.8		
.25 in.	97.8		
#4	97.6		
#8	97.0		
#10	96.9		
#16	96.5		
#20	96.2		
#30	95.8		
#40	92.5		
#50	80.1		
#80	49.7		
#100	41.3		
#200	23.7		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.333 D_{60}= 0.215 D_{50}= 0.181
D_{30}= 0.104 D_{15}= 0.0320 D_{10}= 0.0133
C_u= 16.15 C_c= 3.81

Classification

USCS= AASHTO=

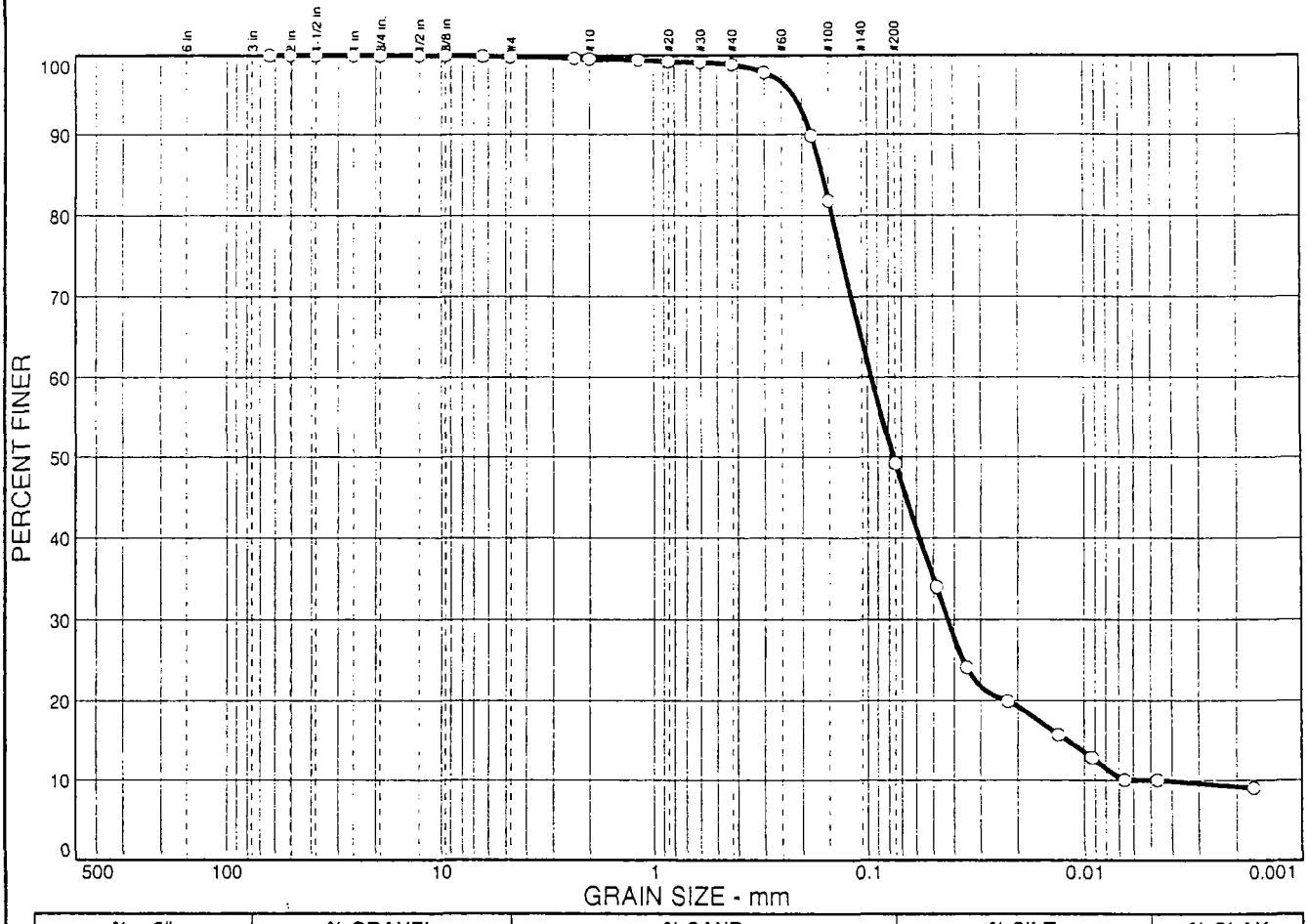
Remarks

Sample No.: MW17, 85-86' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03 Figure: 16

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.2	50.6	39.2	10.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	99.9		
#4	99.8		
#8	99.6		
#10	99.5		
#16	99.4		
#20	99.2		
#30	99.1		
#40	98.8		
#50	97.8		
#80	89.8		
#100	81.8		
#200	49.2		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.160 D_{60}= 0.0961 D_{50}= 0.0765
D_{30}= 0.0429 D_{15}= 0.0119 D_{10}= 0.0046
C_u= 20.74 C_c= 4.15

Classification

USCS= AASHTO=

Remarks

Sample No.: MW17, 87-91' Source of Sample: MW Date: 6-21-07
Location: Elev./Depth:

RMT, Inc.
Madison, Wisconsin

Client:
Project: MSGRG
Project No: 7133.03
Figure: 17

Appendix F
Laboratory Results for Soil Quality

SEVERN TRENT STL®

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-C960

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Muskego Site Groundwater Remediation

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

12/05/2005

STL Buffalo
Current Certifications

As of 11/29/2005

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA,RCRA	C254
West Virginia	CWA,RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5C96002	SBMW-1 93-94	SOIL	11/01/2005	09:30	11/11/2005	09:30
A5C96003	SBMW-2 85-90	SOIL	11/07/2005	07:50	11/11/2005	09:30
A5C96001	SBMW-3 73-83	SOIL	10/27/2005	12:23	11/11/2005	09:30

METHODS SUMMARY

Job#: A05-C960

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

NON-CONFORMANCE SUMMARY

Job#: A05-C960

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C960
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
To accomodate time zone differences and ensure compliance with holding time requirements, sample times have been adjusted +1 hour to Eastern Standard time.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SEVERN TRENT STL

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	*Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.*
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	*Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.*

Sample ID: SBMW-1 93-94
Lab ID: A5C96002
Date Collected: 11/01/2005
Time Collected: 09:30

Date Received: 11/11/2005
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	53.8	MG/KG	WALKLEYB	11/28/2005	SUB	

7

Sample ID: SBMW-2 85-90
Lab ID: A5C96003
Date Collected: 11/07/2005
Time Collected: 07:50

Date Received: 11/11/2005
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	58.8	MG/KG	WALKLEYB	11/28/2005	SUB	

Sample ID: SBMW-3 73-83
Lab ID: A5C96001
Date Collected: 10/27/2005
Time Collected: 12:23

Date Received: 11/11/2005
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	4560		000	000	64.6	MG/KG	WALKLEYB	11/22/2005	SUB	

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Rev. 3/2003

Chain of Custody

Page _____ of _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: RMT, Inc.
Project Contact: Ken Quinn
Telephone: 608-662-5216
Project Name: Muskego
Project Number: 7133.02
Project Location: Muskego, WI
Sampled By: N. Keller

Place Header Sticker Here:
Lab Use Only

Ice Present (Yes) No
Temperature 3.3
Initials CHB
Date 11/10/05 Time 1019
Cooler #

Mail Report To: Quinn
Company: RMT, Inc.
Address: 744 Heartland Tr
City/State/Zip: Madison

Invoice To: Same
Company:
Address:
City/State/Zip:

PO No.

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
(Normal) RUSH* Date Needed _____
~~Notify~~ Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
*Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	TOC w/ 8260	8260 10d VOA							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: / Lab ID #
Fill in Spaces with Bottles per Test																				
11/7/05	11:23	N		G	SB MW-3 73-83	N		S	1								1			
11/8/05	8:30	N		G	SB MW-1 93-94	N		S	1								1			
11/4/05	13:45	N		G	DR-2	N		GW		4							4			
11/7/05	6:50	N		G	SBMW-2 85-90	N		S	1								1			
11/7/05	00:00	N		G	Trip-02	N				2							2			
					↓															
					Not Labeled															

Relinquished By: [signature] Date/Time 11/7/05 5:10
Received by: Date/Time
Relinquished By: CT Laboratories [signature] Date/Time 11-10-05 1434
Received by: [signature] Date/Time 11/10/05 0930

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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J, 0°C

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ANALYTICAL REPORT

Job#: A06-1012

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Muskego Site Groundwater Remediation

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

01/30/2006

STL Buffalo
Current Certifications

As of 12/28/2005

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C254
West Virginia	CWA,RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A6101201	SBMW-7(221)	SOIL	12/09/2005	12:55	01/04/2006	10:05
A6101202	SBMW-7(233)	SOIL	12/13/2005	09:30	01/04/2006	10:05

METHODS SUMMARY

Job#: A06-1012

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

NON-CONFORMANCE SUMMARY

Job#: A06-1012

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-1012
Sample Cooler(s) were received at the following temperature(s); NA °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: SBMW-7(221)
Lab ID: A6101201
Date Collected: 12/09/2005
Time Collected: 12:55

Date Received: 01/04/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	210		000	000	52.0	MG/KG	WALKLEYB	01/06/2006	SUB	

n

Sample ID: SBMW-7(233)
Lab ID: A6101202
Date Collected: 12/13/2005
Time Collected: 09:30

Date Received: 01/04/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	1680		000	000	57.0	MG/KG	WALKLEYB	01/06/2006	SUB	

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File 7/33.02

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Amherst, NY 14228

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ANALYTICAL REPORT

Job#: A06-1022

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Muskego Site Groundwater Remediation

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

02/16/2006

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STL Buffalo
Current Certifications

As of 12/28/2005

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C254
West Virginia	CWA,RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A6102202	SBMW05(108-118)	SOIL	01/10/2006	09:00	01/25/2006	09:25
A6102204	SBMW05(121)	SOIL	01/11/2006	09:00	01/25/2006	09:25
A6102203	SBMW05(~125)	SOIL	01/11/2006		01/25/2006	09:25
A6102201	SBMW06(86-88)	SOIL	01/17/2006	09:00	01/25/2006	09:25
A6102205	SBMW06(88-90)	SOIL	01/17/2006	09:00	01/25/2006	09:25

METHODS SUMMARY

Job#: A06-1022

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

NON-CONFORMANCE SUMMARY

Job#: A06-1022

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-1022
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
To accomodate time zone differences and ensure compliance with holding time requirements, sample times have been adjusted +1 hours to Eastern Standard time.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: SBMW05(108-118)
Lab ID: A6102202
Date Collected: 01/10/2006
Time Collected: 09:00

Date Received: 01/25/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	51.2	MG/KG	WALKLEYB	02/04/2006	SUB	

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Sample ID: SBMW05(121)
Lab ID: A6102204
Date Collected: 01/11/2006
Time Collected: 09:00

Date Received: 01/25/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	1480		000	000	61.3	MG/KG	WALKLEYB	02/04/2006	SUB	

Sample ID: SBMW05(~125)
Lab ID: A6102203
Date Collected: 01/11/2006
Time Collected: :

Date Received: 01/25/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	52.9	MG/KG	WALKLEYB	02/04/2006	SUB	

Sample ID: SBMW06(86-88)
Lab ID: A6102201
Date Collected: 01/17/2006
Time Collected: 09:00

Date Received: 01/25/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	1580		000	000	52.6	MG/KG	WALKLEYB	02/10/2006	SUB	

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Sample ID: SBMW06(88-90)
Lab ID: A6102205
Date Collected: 01/17/2006
Time Collected: 09:00

Date Received: 01/25/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	62.8	MG/KG	WALKLEYB	02/10/2006	SUB	

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Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-1483

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Muskego Site Groundwater Remediation

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Lisa Shaffer
for Candace L. Fox
Project Manager

03/02/2006

STL Buffalo
Current Certifications

As of 12/28/2005

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C254
West Virginia	CWA,RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A6148303	MW01B(131-138)	SOIL	01/24/2006	09:00	02/09/2006	09:30
A6148302	MW01B(152-153)	SOIL	01/25/2006	09:00	02/09/2006	09:30
A6148301	MW01B(260-262)	SOIL	01/31/2006	09:00	02/09/2006	09:30

METHODS SUMMARY

Job#: A06-1483

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

NON-CONFORMANCE SUMMARY

Job#: A06-1483

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-1483
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
To accomodate time zone differences and ensure compliance with holding time requirements, sample times have been adjusted +1 hours to Eastern Standard time.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SEVERN TRENT STL

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: MW01B(131-138)
Lab ID: A6148303
Date Collected: 01/24/2006
Time Collected: 09:00

Date Received: 02/09/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	54.2	MG/KG	WALKLEYB	02/20/2006	SUB	

Sample ID: MW01B(152-153)
Lab ID: A6148302
Date Collected: 01/25/2006
Time Collected: 09:00

Date Received: 02/09/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	58.4	MG/KG	WALKLEYB	02/20/2006	SUB	

Sample ID: MW01B(260-262)
Lab ID: A6148301
Date Collected: 01/31/2006
Time Collected: 09:00

Date Received: 02/09/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	53.1	MG/KG	WALKLEYB	02/20/2006	SUB	

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STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-2590

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Muskego Site Groundwater Remediation

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace D. Fox
Project Manager

03/29/2006

STL Buffalo
Current Certifications

As of 3/15/2006

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA,ASP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
West Virginia	CWA,RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A6259003	SBDUP01	SOIL	02/23/2006	08:00	03/10/2006	09:30
A6259001	SBMW04 52-58	SOIL	02/23/2006	08:00	03/10/2006	09:30
A6259002	SBMW04~59	SOIL	02/24/2006	08:00	03/10/2006	09:30

METHODS SUMMARY

Job#: A06-2590

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

NON-CONFORMANCE SUMMARY

Job#: A06-2590

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-2590
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
To accomodate time zone differences and ensure compliance with holding time requirements, sample times have been adjusted +1 hours to Eastern Standard time.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SEVERN TRENT STL

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: SBDUP01
Lab ID: A6259003
Date Collected: 02/23/2006
Time Collected: 08:00

Date Received: 03/10/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	401		000	000	59.7	MG/KG	WALKLEYB	03/21/2006	SUB	

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Sample ID: SBMW04 52-58
Lab ID: A6259001
Date Collected: 02/23/2006
Time Collected: 08:00

Date Received: 03/10/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	858		000	000	58.0	MG/KG	WALKLEYB	03/21/2006	SUB	

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Sample ID: SBMW04-59
Lab ID: A6259002
Date Collected: 02/24/2006
Time Collected: 08:00

Date Received: 03/10/2006
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	480		000	000	59.5	MG/KG	WALKLEYB	03/21/2006	SUB	

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SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A07-4594

STL Project#: NY5A586233
Site Name: Muskego, WI
Task: Soil Sampling

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

06/14/2007

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

STL Buffalo
Current Certifications

As of 5/16/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA,NELAP CWA, RCRA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	NELAP SDWA, CWA, RCRA	NY455
New York	NELAP AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

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SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A7459402	SBMW07S	SOIL	04/17/2007		05/01/2007	08:45
A7459404	SBMW11A 185-190	SOIL	04/17/2007		05/01/2007	08:45
A7459403	SBMW13 190-192	SOIL	04/23/2007		05/01/2007	08:45
A7459401	SBMW13 21-30	SOIL	04/19/2007		05/01/2007	08:45

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

METHODS SUMMARY

Job#: A07-4594

STL Project#: NY5A586233
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

References:

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

The results presented in this report relate only to the analytical testing and conditions of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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SDG NARRATIVE

Job#: A07-4594

STL Project#: NY5A586233
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-4594
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Candace L. Fox

Candace L. Fox
Project Manager

6/15/07

Date

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

STL

DATA QUALIFIER PAGE

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ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: SBMW07S
Lab ID: A7459402
Date Collected: 04/17/2007
Time Collected:

Date Received: 05/01/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	56.9		000	000	50.0	MG/KG	WALKLEYB	05/12/2007	SUB	

Sample ID: SBMW11A 185-190
Lab ID: A7459404
Date Collected: 04/17/2007
Time Collected:

Date Received: 05/01/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	62.3		000	000	50.0	MG/KG	WALKLEYB	05/12/2007	SUB	

Sample ID: SBMW13 190-192
Lab ID: A7459403
Date Collected: 04/23/2007
Time Collected:

Date Received: 05/01/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	52.7		000	000	50.0	MG/KG	WALKLEYB	05/12/2007	SUB	

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Sample ID: SBMW13 21-30
Lab ID: A7459401
Date Collected: 04/19/2007
Time Collected:

Date Received: 05/01/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	50.0	MG/KG	WALKLEYB	05/12/2007	SUB	

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SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature
Nate Keller	Nathaniel A Keller
Site Name: Muskego LF	Spec Request: AC 3195
Site Location: Muskego WI	Event Name: MSGRA Phase II EGM

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC						Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)															
				INDICATE CONTAINER BY USING KEY BELOW															
	SBMW13 21-30	4/19/07	—	S									1						
	SB MW07S	4/17/07											1						
	SB MW13 170-180	4/23/07											1						
	SBMW11A 185-190	4/17/07		↓									1						

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel A Keller	RMT, Inc.	4/30/07	700	To Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
				[signature]	STL	5/1/07	0845
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier:
2.0°C	
	Bill of Lading:

STL-8219 (1002)

custody 189707

12/27

SEVERN TRENT STL

STL Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. A74594

Muskego Landfill

Lot #: C7E110379

Candace Fox

STL Buffalo
10 Hazelwood Drive
Amherst, NY 14228

SEVERN TRENT LABORATORIES, INC.

Christina M. Kovitch
Project Manager

May 18, 2007

STL

ACCREDITED IN ACCORDANCE WITH

NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	STL Pittsburgh
NFESC	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW HW	X X
California – nelac	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – nelac	(#E87660)	WW HW	X X
Illinois – nelac	(#200005)	WW HW	X X
Kansas – nelac	(#E-10350)	WW HW	X X
Louisiana – nelac	(#93200)	WW HW	X X
New Hampshire – nelac	(#203002)	WW –	X –
New Jersey – nelac	(PA-005)	WW HW	X X
New York – nelac	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Ohio Vap	(#CL0063)	WW HW	X X
Pennsylvania - nelac	(#02-00416)	WW HW	X X
South Carolina	(#89014001)	WW HW	X X
Utah – nelac	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 04/27/06

CASE NARRATIVE
STL Buffalo

LOT # C7E110379

Sample Receiving:
STL Pittsburgh received samples on May 10, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C7E110379

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Total Organic Carbon	MSA WALKLEY-BLA	WALKLEY WALKLEY
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

MSA "Methods of Soil Analysis, Chemical and Microbiological Properties", Part 2, 2nd Ed., 1982 and Subsequent Revisions.

lab

SAMPLE SUMMARY

C7E110379

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JWTX3	001	SBMW13 (21-30)	04/19/07	
JWT0A	002	SBMW07S	04/17/07	
JWT0F	003	SBMW13 (190-192)	04/23/07	
JWT0J	004	SBMW11A (185-190)	04/17/07	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

C7E110379

Date: 05/09/2007
Time: 16:38:48

STL Buffalo
Internal Chain of Custody

Page: 1
Rept: AN0093

Client: Waste Management
Project: NY5A586233
Quote: NY95-481
SM #: 284

PM: Candace L. Fox
Due Date: 05/18/2007
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
SBMW13 21-30	A7459401	SOIL	LTOC	1-4ozGW	04/19/2007
SBMW07S	A7459402	SOIL	LTOC	1-4ozGW	04/17/2007
SBMW13 190-192	A7459403	SOIL	LTOC	1-4ozGW	04/23/2007
SBMW11A 185-190	A7459404	SOIL	LTOC	1-4ozGW	04/17/2007

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By STL - Pittsburgh: Signature(s)	Date	Time
(1)	05/09/2007	1640	(3)	5/10/2007	950
(2)	/ /20		(4)	/ /20	

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19/27

STL Buffalo

Client Sample ID: SBMW13 (21-30)

General Chemistry

Lot-Sample #...: C7E110379-001 **Work Order #...:** JWTX3 **Matrix.....:** SOLID
Date Sampled...: 04/19/07 **Date Received..:** 05/10/07
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.4**	**1.0**	**%**	**MCAWW 160.3 MOD**	**05/11-05/12/07**	**7131517**
	Dilution Factor: 1			Analysis Time..: 08:18	MS Run #.....: 7131318	
Total Organic Carbon (TOC)	ND	53.0	mg/kg	MSA WALKLEY-BLACK	05/15/07	7135380
	Dilution Factor: 1			Analysis Time..: 00:00	MS Run #.....: 7135197	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW07S

General Chemistry

Lot-Sample #...: C7E110379-002 Work Order #...: JWT0A Matrix.....: SOLID
Date Sampled...: 04/17/07 Date Received..: 05/10/07
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	87.9	1.0	%	MCAWW 160.3 MOD	05/11-05/12/07	7131517
	Dilution Factor: 1			Analysis Time..: 08:18	MS Run #.....: 7131318	
Total Organic Carbon (TOC)	3320	56.9	mg/kg	MSA WALKLEY-BLACK	05/15/07	7135380
	Dilution Factor: 1			Analysis Time..: 00:00	MS Run #.....: 7135197	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW13 (190-192)

General Chemistry

Lot-Sample #...: C7E110379-003 Work Order #...: JWT0F Matrix.....: SOLID
Date Sampled...: 04/23/07 Date Received..: 05/10/07
% Moisture.....: 5.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	94.9	1.0	%	MCAWW 160.3 MOD	05/11-05/12/07	7131517
		Dilution Factor: 1		Analysis Time..: 08:18	MS Run #.....: 7131318	
Total Organic Carbon (TOC)	449	52.7	mg/kg	MSA WALKLEY-BLACK	05/15/07	7135380
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7135197	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW11A (185-190)

General Chemistry

Lot-Sample #...: C7E110379-004 Work Order #...: JWT0J Matrix.....: SOLID
Date Sampled...: 04/17/07 Date Received..: 05/10/07
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	80.2	1.0	%	MCAWW 160.3 MOD	05/11-05/12/07	7131517
	Dilution Factor: 1			Analysis Time..: 08:18	MS Run #.....: 7131318	
Total Organic Carbon (TOC)	2980	62.3	mg/kg	MSA WALKLEY-BLACK	05/15/07	7135380
	Dilution Factor: 1			Analysis Time..: 00:00	MS Run #.....: 7135197	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C7E110379 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: JW1AG1AA		MB Lot-Sample #:	C7E150000-380	
	ND	50.0	mg/kg	MSA WALKLEY-BLACK	05/15/07	7135380
		Dilution Factor: 1				
		Analysis Time..: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E110379 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	Work Order #: JW1AG1AC		LCS Lot-Sample#: C7E150000-380		
	104	(80 - 120)	MSA WALKLEY-BLACK	05/15/07	7135380
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E110379 **Work Order #...:** JWRR6-SMP **Matrix.....:** SOLID
JWRR6-DUP
Date Sampled...: 05/10/07 **Date Received..:** 05/11/07
% Moisture.....: 79

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: C7E110250-004		
	21.4	25.3	%	17	(0-20)	MCAWW 160.3 MOD	05/11-05/12/07	7131517
			Dilution Factor: 1			Analysis Time..: 08:18	MS Run Number..: 7131318	

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SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E110379 **Work Order #...:** JWTX3-SMP JWTX3-DUP **Matrix.....:** SOLID

Date Sampled...: 04/19/07 **Date Received..:** 05/10/07

% Moisture.....: 5.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)						SD Lot-Sample #: C7E110379-001		
	ND	ND	mg/kg	0	(0-25)	MSA WALKLEY-BLACK	05/15/07	7135380
			Dilution Factor: 1			Analysis Time..: 00:00	MS Run Number..: 7135197	

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A07-5208

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI
Task: Soil Sampling

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

06/19/2007

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Leaders in Environmental Testing

Severn Trent Laboratories, Inc.

SAMPLE SUMMARY

Case#: F

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A7520806	SBDUP01	SOIL	04/30/2007		05/15/2007	09:00
A7520807	SBDUP02	SOIL	04/30/2007		05/15/2007	09:00
A7520801	SBMW08A 75-85	SOIL	04/30/2007		05/15/2007	09:00
A7520805	SBMW10 131-136	SOIL	04/30/2007		05/15/2007	09:00
A7520804	SBMW10A 226-231	SOIL	04/30/2007		05/15/2007	09:00
A7520803	SBMW15A 83-88	SOIL	04/30/2007		05/15/2007	09:00
A7520802	SBMW17 87-92	SOIL	04/30/2007		05/15/2007	09:00

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TR

METHODS SUMMARY

Job#: A07-5208

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

References:

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

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TR

SDG NARRATIVE

Job#: A07-5208

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-5208
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Candace L. Fox

Candace L. Fox
Project Manager

6/20/07

Date

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Chain of Custody Documentation

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature:	Site Name:	Spec Request:	Site Location:	Event Name:
Nate Keller	Nathaniel R Keller	Muskegon EGM LF	AC 7957	Muskegon, MI	Muskegon EGM Phase II

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC						Additional Analysis/Remarks
		4/30/07		INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)															
				INDICATE CONTAINER BY USING KEY BELOW															
	SBMW08A 7588	5/14/07	—	S	G								1						
	SBMW17 87-92																		
	SBMW15A 83-88																		
	SBMW10A 226-231																		
	SBMW10 171-176																		
	SBDup01																		
	SBDup02																		

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel R Keller	MT Inc	5/14/07	1900	To Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
				D. C	STL	5/15/07	0900
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- SL = Sludge
- MS = Miscellaneous Solids
- OI = Oil
- A = Air
- O =

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS: 2.0°C

Courier: Fed Ex

Bill of Lading: 8614 6722 4020

STL-8219 (1002)

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Custody Signed ○ Dated

STL
STL Buffalo

Doc. Login/ARRF - Side A
Rev 4
May 11, 2007

SAMPLE LOGIN JOB # 5208

Shipment ID_____ Strict Internal COC: YES / ~~NO~~

Residual Chlorine Check: ☐

Radiation Check <0.02 mR/hr: YES / NO

AC 21557 Project / Task NYSA5862331 4

TAT_____BD/ 21 CD # OF SAMPLES 2 TRIP BLANK Y/N # ____

SHIPPED BY Fedex	ATTACH SHIPPING TAGS
RECEIVED DATE / TIME:	5/15/10 05:00

COOLER TEMP 2.0 °C (4 +/- 2 °C) OK NO

Cooler Custody Seal intact? YES/NO NONE SEAL # ~~—~~

If NO to cooler temp or seal, PM notified? YES ~~—~~ (PM Name)

SUBCONTRACT ~~YES~~/NO DTC LAB STL Pitts SM # 298

COMMENTS: SAMPLE TIME ACTUAL +1HR +2 HR +3 HR NONE

Sample received outside hold time ~~—~~

Headspace in VOA vials ~~—~~

Problems with bottle labels ~~—~~

OTHER SAMPLE RECEIPT COMMENTS (Fill out ARRF, see reverse)

Pitts

PRESERVATION CHECKED YES___ NO___ NA X Initials DC

ARE SAMPLE DATES AND TIMES CORRECT? Initials DC

WERE ALL THE APPROPRIATE TESTS ASSIGNED? Initials DC

Date: 05/15/2007
Time: 12:52:41

STL Buffalo
Sample Inventory

Page: 1
Rept: AN0383

Job No: A07-5208
Client: Waste Management
Project: NY5A586233
SDG:
Case:
SMO No: 298
No. Samps: 7

Radiation Check: YES
Custody Seal: YES
Chain of Custody: YES
Sample Tags: NO
Sample Tag Numbers: NO
SMO Forms: NO
CLSIS: NO

Cooler Temperature: 2.0°C

Sample	Receive	Client Sample ID	Lab ID	Condition	Bottles	Parameters	Lab	Pres log Code	Pres log PH
04/30/2007	05/15/2007 09:00	SBMW08A 758S	A7520801	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBMW17 87-92	A7520802	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBMW15A 83-88	A7520803	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBMW10A 226-231	A7520804	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBMW10 131-136	A7520805	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBDUP01	A7520806	Good	1-4ozGW	TOC	STLPIT	0100	
04/30/2007	05/15/2007 09:00	SBDUP02	A7520807	Good	1-4ozGW	TOC	STLPIT	0100	

Sample Custodian: DC 5/15/2007

Analytical Services Coordinator: _____ / /20

Preservation Code References:

First Digit: Sample Filtration; 1=Filtered, 0=Unfiltered
Second Digit: Sample Requires Cooling; (4°) 1=Cooled, 0=Not Cooled

Third, Fourth Digits - Preservation Types:
00=Nothing added, 01=HNO3, 02=H2SO4, 03=HCl, 04=Sodium Thiosulfate
05=NaOH, 06=NaOH+Zinc Acetate, 07=Sodium Thiosulfate+HCl, 08=MeOH
09=MCAA (Mono chloroacetic acid)

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SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. A752080

Muskego Landfill

Lot #: C7E160352

Candace Fox

STL Buffalo
10 Hazelwood Drive
Amherst, NY 14228

SEVERN TRENT LABORATORIES, INC.

Christina M. Kovitch
Project Manager

May 25, 2007

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH

NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	STL Pittsburgh
NFESC	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW HW	X X
California – nelac	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – nelac	(#E87660)	WW HW	X X
Illinois – nelac	(#200005)	WW HW	X X
Kansas – nelac	(#E-10350)	WW HW	X X
Louisiana – nelac	(#93200)	WW HW	X X
New Hampshire – nelac	(#203002)	WW –	X –
New Jersey – nelac	(PA-005)	WW HW	X X
New York – nelac	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Ohio Vap	(#CL0063)	WW HW	X X
Pennsylvania - nelac	(#02-00416)	WW HW	X X
South Carolina	(#89014001)	WW HW	X X
Utah – nelac	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 04/27/06

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CASE NARRATIVE
STL Buffalo

LOT # C7E160352

Sample Receiving:
STL Pittsburgh received samples on May 16, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C7E160352

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Total Organic Carbon	MSA WALKLEY-BLA	WALKLEY WALKLEY
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

MSA "Methods of Soil Analysis, Chemical and Microbiological Properties", Part 2, 2nd Ed., 1982 and Subsequent Revisions.

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SAMPLE SUMMARY

C7E160352

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JW4T6	001	SBMW08A 758S	04/30/07	
JW4T8	002	SBMW17 87-92	04/30/07	
JW4T9	003	SBMW15A 83-88	04/30/07	
JW4VA	004	SBMW10A 226-231	04/30/07	
JW4VD	005	SBMW10 131-136	04/30/07	
JW4VE	006	SBDUP01	04/30/07	
JW4VF	007	SBDUP02	04/30/07	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

C7E160352

Client: Waste Management
Project: NY5A586233
Quote: NY95-481
SM #: 298

PM: Candace L. Fox
Due Date: 06/01/2007
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
SBMW08A 758S	A7520801	SOIL	TOC	1-4ozGW	04/30/2007
SBMW17 87-92	A7520802	SOIL	TOC	1-4ozGW	04/30/2007
SBMW15A 83-88	A7520803	SOIL	TOC	1-4ozGW	04/30/2007
SBMW10A 226-231	A7520804	SOIL	TOC	1-4ozGW	04/30/2007
SBMW10 131-136	A7520805	SOIL	TOC	1-4ozGW	04/30/2007
SBDUP01	A7520806	SOIL	TOC	1-4ozGW	04/30/2007
SBDUP02	A7520807	SOIL	TOC	1-4ozGW	04/30/2007

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By STL - Pittsburgh: Signature(s)	Date	Time
(1)	5/15/2007	1645	(3)	5/16/20	910
(2)	/ /20		(4)	/ /20	

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C7E160352

STL	STL Work Sharing Agreement		STL Exporting Lab	Buffalo
			Project Name	Muskego, WI
Import Lab Information		**Export Lab Information**		
STL Lab Name	Pittsburgh		PM Contact Name	Candace Fox
PM Contact Name	Chris Kovitch		Backup Contact Name	Lisa Shaffer
Backup Contact Name			Agreement Date	3/10/2006
Pricing Information		**Project Information**		
QA/QC (i.e. MS/MSD) Billable?	Yes		Client Company Name	Waste Management
Raw Data Surcharge	%		Date First Samples to Arrive	3/11/2006
EDD Surcharge	%		Est. Duration of Sampling Event	Monthly
TAT Surcharges	%			
Penalty Terms	None			
Other Charges Not In Unit Price? (i.e. canisters, regulators, shipping, bottles)	None		Quote or Contract Reference ID	NY95-481
Project Details				
Non-Standard Work Product	No		Method Detection Limits	See Attached
Quality Assurance Plan	Yes-See Attached		Special QC/QC Requirements	See Attached
Certifications	Wisconsin		Control Limits	See Attached
Analyte/Cmpd. List with RLs Attached	No		Client Requested storage requirements	
Results Dry-Weight Corrected			Records Retention	5
Special Method Holding Times	None			
Internal Chain of Custody Required	No			
Known Hazards/High Analyte Level	No			
Saturday/Special Delivery Options	None			
Special Instructions	None			
Reporting Limit Convention	Report to RL with no "J" Values			

Deliverable Requirements		Transmittal medium	Format Column	TAT
Preliminary Report:	No			
Final Report:	Yes	Email	C	21
EDD:	No		See Attached	
mySTL:	No	NA	NA	
Custom Forms:	No	NA	See Attached	

Import and Export Lab Agreement

Import lab must acknowledge receipt of Agreement and samples *via E-Mail*

Analysis	Method	Matrix	# of Samples	Import Lab's Unit Price	Unit Price w/Surcharges	Extended Price
TOC	Walkley Black	Soil	5	$ 45.00	$ 45.00	$ 225.00
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
					$ -	$ -
				Approximate Total Project Value		$ 225.00

STL Buffalo

Client Sample ID: SBMW08A 758S

General Chemistry

Lot-Sample #...: C7E160352-001 Work Order #...: JW4T6 Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 7.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	92.5	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
	Dilution Factor: 1			Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	841	270	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
	Dilution Factor: 1			Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW17 87-92

General Chemistry

Lot-Sample #...: C7E160352-002 Work Order #...: JW4T8 Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	86.4	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	3250	289	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

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STL Buffalo

Client Sample ID: SBMW15A 83-88

General Chemistry

Lot-Sample #...: C7E160352-003 Work Order #...: JW4T9 Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	82.0	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	372	305	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW10A 226-231

General Chemistry

Lot-Sample #...: C7E160352-004 Work Order #...: JW4VA Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 6.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	93.9	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	2480	266	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW10 131-136

General Chemistry

Lot-Sample #...: C7E160352-005 Work Order #...: JW4VD Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	95.2	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	ND	263	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBDUP01

General Chemistry

Lot-Sample #...: C7E160352-006 Work Order #...: JW4VE Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	94.4	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	1610	265	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBDUP02

General Chemistry

Lot-Sample #...: C7E160352-007 Work Order #...: JW4VF Matrix.....: SOLID
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	82.0	1.0	%	MCAWW 160.3 MOD	05/16-05/17/07	7136557
		Dilution Factor: 1		Analysis Time..: 13:05	MS Run #.....: 7136302	
Total Organic Carbon (TOC)	701	305	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C7E160352 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: JXK8C1AA		MB Lot-Sample #:	C7E240000-081	
	ND	250	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1				
		Analysis Time..: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E160352 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: JXK8C1AC	LCS Lot-Sample#: C7E240000-081		
	103	(80 - 120)	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1	*Analysis Time..: 00:00*		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E160352 **Work Order #...:** JW4Q5-SMP JW4Q5-DUP **Matrix.....:** SOLID

Date Sampled...: 05/15/07 **Date Received..:** 05/16/07

% Moisture.....: 21

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: C7E160341-001		
	79.1	79.6	%	0.72	(0-20)	MCAWW 160.3 MOD	05/16-05/17/07	7136557

Dilution Factor: 1 Analysis Time..: 13:05 MS Run Number..: 7136302

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E160352 Work Order #...: JW4T8-SMP Matrix.....: SOLID
JW4T8-DUP
Date Sampled...: 04/30/07 Date Received..: 05/16/07
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)						SD Lot-Sample #: C7E160352-002		
	3250	3640	mg/kg	11	(0-25)	MSA WALKLEY-BLACK	05/24/07	7144081

Dilution Factor: 1 Analysis Time..: 00:00 MS Run Number..: 7144045

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

7133.03

1/40

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A07-5537

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI
Task: Soil Sampling

Ken Quinn
RMT, Inc.
744 Heartland Trail
Madison, WI 53718

STL Buffalo

Candace L. Fox
Project Manager

06/19/2007

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

STL Buffalo
Current Certifications

As of 5/16/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA,NELAP CWA, RCRA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	NELAP SDWA, CWA, RCRA	NY455
New York	NELAP AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

SAMPLE SUMMARY

Case#: F

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A7553702	SBMW084 (75-80)	SOIL	05/14/2007		05/22/2007	08:40
A7553701	SBMW09 (63-68)	SOIL	05/14/2007		05/22/2007	08:40

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METHODS SUMMARY

Job#: A07-5537

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

References:

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

The results presented in this report relate only to the analytical testing and conditions of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SDG NARRATIVE

Job#: A07-5537

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-5537
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Candace L. Fox

Candace L. Fox
Project Manager

6/20/07

Date

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 06/19/2007
Time: 10:50:04

Waste Management
Muskego, WI
Soil Sampling

Rept: AN1183

Sample ID: SBMW084 (75-80)
Lab ID: A7553702
Date Collected: 05/14/2007
Time Collected:

Date Received: 05/22/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	271	MG/KG	WALKLEYB	05/25/2007 00:00	SUB	

Sample ID: SBMW09 (63-68) Date Received: 05/22/2007
Lab ID: A7553701 Project No: NY5A586233
Date Collected: 05/14/2007 Client No: L10923
Time Collected: Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	263	MG/KG	WALKLEYB	05/25/2007 00:00	SUB	

STL

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

SBMW084 (75-80)

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: A7553702

% Solids: 0.0 Date Samp/Recv: 05/14/2007 05/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Organic Carbon	MG/KG	271	U			WALKLEYBLK	05/25/2007

Comments:

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: SBMW09 (63-68)

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: A7553701

% Solids: 0.0 Date Samp/Recv: 05/14/2007 05/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Organic Carbon	MG/KG	263	U			WALKLEYBLK	05/25/2007

Comments:

SAMPLE SUMMARY

Case#: F

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A7553702	SBMW084 (75-80)	SOIL	05/14/2007		05/22/2007	08:40
A7553701	SBMW09 (63-68)	SOIL	05/14/2007		05/22/2007	08:40

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

METHODS SUMMARY

Job#: A07-5537

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	OTHER WALKLEYBLK

References:

OTHER Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

The results presented in this report relate only to the analytical testing and conditions of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SDG NARRATIVE

Job#: A07-5537

STL Project#: NY5A586233
Case#: F
Site Name: Muskego, WI

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-5537
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Pittsburgh. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Candace L. Fox

Candace L. Fox
Project Manager

6/20/01

Date

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 06/19/2007
Time: 10:50:20

Waste Management
Muskego, WI
Soil Sampling

Rept: AN1183

Sample ID: SBMW084 (75-80)
Lab ID: A7553702
Date Collected: 05/14/2007
Time Collected:

Date Received: 05/22/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	271	MG/KG	WALKLEYB	05/25/2007 00:00	SUB	

Sample ID: SBMW09 (63-68)
Lab ID: A7553701
Date Collected: 05/14/2007
Time Collected:

Date Received: 05/22/2007
Project No: NY5A586233
Client No: L10923
Site No:

Parameter	Result	Flag	LOD	LOQ	Detection Limit	Units	Method	Date/Time Analyzed	Anl Int	WDNR Cert #
Wet Chemistry Analysis										
Total Organic Carbon (TOC)	ND		000	000	263	MG/KG	WALKLEYB	05/25/2007 00:00	SUB	

Chain of Custody

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature:
Nate Keller	Nathaniel R Keller
Site Name: Muskego LF	Spec Request: AC 7/195
Site Location: Muskego, WI	Event Name: Muskego EGM II

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC						Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)															
				INDICATE CONTAINER BY USING KEY BELOW															
	SBMW09 (63-68)	5/14/07	—										1						
	SBMW08A (75-80)	5/14/07	—										1						

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel R Keller	RMT Inc	5/21/07	1400	TO	Fed EX		
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
					STL	5/22/07	0840
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Oil = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier:
2.0°C	Bill of Lading:

STL-8219 (1002)

Custody Signed & Dated Tape

22/40

STL

STL Buffalo

Doc. Login/ARRF - Side A
Rev 4
May 11, 2007

SAMPLE LOGIN JOB # 5537

Shipment ID _____ Strict Internal COC: YES / NO

Residual Chlorine Check: ☐

Radiation Check <0.02 mR/hr: YES / NO

AC 71557 Project / Task NY5A586233 / 4

TAT ____ BD/ 21 CD # OF SAMPLES 2 TRIP BLANK Y/N # ____

SHIPPED BY Fedex	ATTACH SHIPPING TAGS
RECEIVED DATE / TIME:	5/22/07 08:40

COOLER TEMP 2.0 °C (4 +/- 2 °C) OK NO

Cooler Custody Seal intact? YES/NO NONE SEAL # ____

If NO to cooler temp or seal, PM notified? YES ____ (PM Name)

SUBCONTRACT YES/NO LAB STL Pitts SM # ____

COMMENTS: SAMPLE TIME ACTUAL +1HR +2 HR +3 HR NONE

Sample received outside hold time ____

Headspace in VOA vials ____

Problems with bottle labels ____

OTHER SAMPLE RECEIPT COMMENTS (Fill out ARRF, see reverse)

PRESERVATION CHECKED YES___ NO___ NA ✓ Initials DC

ARE SAMPLE DATES AND TIMES CORRECT? Initials DC

WERE ALL THE APPROPRIATE TESTS ASSIGNED? Initials DC

125

Job No: A07-5537
Client: Waste Management
Project: NY5A586233
SDG:
Case: F
SMO No: 243
No. Samps: 2

Radiation Check: YES
Custody Seal: YES
Chain of Custody: YES
Sample Tags: NO
Sample Tag Numbers: NO
SMO Forms: NO
CLSIS: NO

Cooler Temperature: 2.0°C

Sample	Receive	Client Sample ID	Lab ID	Condition	Bottles	Parameters	Lab	Pres log Code	Pres log PH
05/14/2007	05/22/2007 08:40	SBMW09 (63-68)	A7553701	Good	1-4ozGW	WALKER BLANK TOC	STLPIT	0100	
05/14/2007	05/22/2007 08:40	SBMW084 (75-80)	A7553702	Good	1-4ozGW	WALKER BLANK TOC	STLPIT	0100	

Sample Custodian: DC 5/22/2007

Analytical Services Coordinator: _____ / /20

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Preservation Code References:

First Digit: Sample Filtration; 1=Filtered, 0=Unfiltered
Second Digit: Sample Requires Cooling; (4°) 1=Cooled, 0=Not Cooled

Third, Fourth Digits - Preservation Types:
00=Nothing added, 01=HNO3, 02=H2SO4, 03=HCl, 04=Sodium Thiosulfate
05=NaOH, 06=NaOH+Zinc Acetate, 07=Sodium Thiosulfate+HCl, 08=MeOH
09=MCAA (Mono chloroacetic acid)

Wet Chemistry Data

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

SBMW084 (75-80)

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID: A7553702

% Solids: 0.0 Date Samp/Recv: 05/14/2007 05/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Organic Carbon	MG/KG	271	U			WALKLEYBLK	05/25/2007

Comments:

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

SBMW09 (63-68)

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: A7553701

% Solids: 0.0 Date Samp/Recv: 05/14/2007 05/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Organic Carbon	MG/KG	263	U			WALKLEYBLK	05/25/2007

Comments:

SEVERN TRENT STL

STL Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. A755370

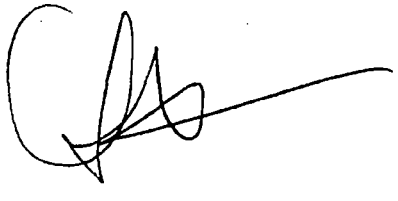
Muskego Landfill

Lot #: C7E230361

Candace Fox

STL Buffalo
10 Hazelwood Drive
Amherst, NY 14228

SEVERN TRENT LABORATORIES, INC.



Christina M. Kovitch
Project Manager

May 25, 2007

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH

NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	STL Pittsburgh
NFESC	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW HW	X X
California – nelac	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – nelac	(#E87660)	WW HW	X X
Illinois – nelac	(#200005)	WW HW	X X
Kansas – nelac	(#E-10350)	WW HW	X X
Louisiana – nelac	(#93200)	WW HW	X X
New Hampshire – nelac	(#203002)	WW –	X –
New Jersey – nelac	(PA-005)	WW HW	X X
New York – nelac	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Ohio Vap	(#CL0063)	WW HW	X X
Pennsylvania - nelac	(#02-00416)	WW HW	X X
South Carolina	(#89014001)	WW HW	X X
Utah – nelac	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 04/27/06

CASE NARRATIVE
STL Buffalo

LOT # C7E230361

Sample Receiving:
STL Pittsburgh received samples on May 23, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C7E230361

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Total Organic Carbon	MSA WALKLEY-BLA	WALKLEY WALKLEY
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

MSA "Methods of Soil Analysis, Chemical and Microbiological Properties", Part 2, 2nd Ed., 1982 and Subsequent Revisions.

SAMPLE SUMMARY

C7E230361

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JXKHE	001	SBMW09(63-68)	05/14/07	
JXKHJ	002	SBMW084(75-80)	05/14/07	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

C7E230361

Client: Waste Management
Project: NY5A586233
Quote: NY95-481
SM #: 243

PM: Candace L. Fox
Due Date: 06/08/2007
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
SBMW09 (63-68)	A7553701	SOIL	WALKER BLANK TOC	1-4ozGW	05/14/2007
SBMW084 (75-80)	A7553702	SOIL	WALKER BLANK TOC	1-4ozGW	05/14/2007

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By STL - Pittsburgh: Signature(s)	Date	Time
(1) [signature]	5/22/2007	1645	(3)	/ /20	
(2)	/ /20		(4) [signature]	5/23/2007	0855

STL Buffalo

Client Sample ID: SBMW09(63-68)

General Chemistry

Lot-Sample #...: C7E230361-001 **Work Order #...:** JXKHE **Matrix.....:** SOLID
Date Sampled...: 05/14/07 **Date Received..:** 05/23/07
% Moisture.....: 5.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.9**	**1.0**	**%**	**MCAWW 160.3 MOD**	**05/24-05/25/07**	**7144404**
	Dilution Factor: 1			Analysis Time..: 10:50	MS Run #.....: 7144239	
Total Organic Carbon (TOC)	ND	263	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
	Dilution Factor: 1			Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL Buffalo

Client Sample ID: SBMW084(75-80)

General Chemistry

Lot-Sample #...: C7E230361-002 **Work Order #...:** JXKHJ **Matrix.....:** SOLID
Date Sampled...: 05/14/07 **Date Received..:** 05/23/07
% Moisture.....: 7.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.4**	**1.0**	**%**	**MCAWW 160.3 MOD**	**05/24-05/25/07**	**7144404**
		Dilution Factor: 1		Analysis Time..: 10:50	MS Run #.....: 7144239	
Total Organic Carbon (TOC)	ND	271	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 7144045	

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C7E230361 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)		Work Order #: JXK8C1AA		MB Lot-Sample #:	C7E240000-081	
	ND	250	mg/kg	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1				
		Analysis Time...: 00:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E230361 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)	Work Order #: JXK8C1AC LCS Lot-Sample#: C7E240000-081				
	103	(80 - 120)	MSA WALKLEY-BLACK	05/24/07	7144081
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E230361 **Work Order #...:** JW4T8-SMP JW4T8-DUP **Matrix.....:** SOLID

Date Sampled...: 04/30/07 **Date Received..:** 05/16/07

% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon (TOC)						SD Lot-Sample #: C7E160352-002		
	3250	3640	mg/kg	11	(0-25)	MSA WALKLEY-BLACK	05/24/07	7144081
			Dilution Factor: 1			Analysis Time..: 00:00	MS Run Number..: 7144045	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

KH

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C7E230361 **Work Order #...:** JXKGH-SMP JXKGH-DUP **Matrix.....:** SOLID

Date Sampled...: 05/22/07 **Date Received..:** 05/23/07

% Moisture.....: 40

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: C7E230354-001		
	60.3	60.6	%	0.54	(0-20)	MCAWW 160.3 MOD	05/24-05/25/07	7144404

Dilution Factor: 1 Analysis Time..: 10:50 MS Run Number..: 7144239

Appendix G
2006 Potentiometric Maps and CW07 Pumping Records

Muskego SCADA System
Hourly Log Report

Description: WELL 7 FLOW METER PULSE (W7FM) Units: X1000

Date	Time	Value	Accumulated Value
05/24/2006	00:00:00	0~	0
	01:00:00	0~	0
	02:00:00	0~	0
	03:00:00	0~	0
	04:00:00	0~	0
	05:00:00	0~	0
	06:00:00	0~	0
	07:00:00	10	10
	08:00:00	1	11
	09:00:00	0~	11
	10:00:00	0~	11
	11:00:00	0~	11
	12:00:00	0~	11
	13:00:00	0~	11
	14:00:00	0~	11
	15:00:00	16	27
	16:00:00	42	69
	17:00:00	42	111
	18:00:00	43^	154
	19:00:00	42	196
	20:00:00	41	237
	21:00:00	41	278
	22:00:00	41	319
	23:00:00	25	344
05/25/2006	00:00:00	0~	344
	01:00:00	0~	344
	02:00:00	0~	344
	03:00:00	0~	344
	04:00:00	0~	344
	05:00:00	0~	344
	06:00:00	0~	344
	07:00:00	0~	344
	08:00:00	2	346
	09:00:00	0~	346
	10:00:00	0~	346
	11:00:00	0~	346
	12:00:00	0~	346
	13:00:00	11	357
	14:00:00	43^	400
	15:00:00	42	442
	16:00:00	42	484
	17:00:00	41	525
	18:00:00	41	566
	19:00:00	42	608
	20:00:00	41	649
	21:00:00	41	690
	22:00:00	42	732
	23:00:00	41	773
05/26/2006	00:00:00	1	774
	01:00:00	0~	774
	02:00:00	0~	774

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Muskego SCADA System
Hourly Log Report

Description: WELL 7 FLOW METER PULSE (W7FM) Units: X1000

Date	Time	Value	Accumulated Value
05/26/2006	03:00:00	0~	774
	04:00:00	0~	774
	05:00:00	0~	774
	06:00:00	0~	774
	07:00:00	2	776
	08:00:00	0~	776
	09:00:00	0~	776
	10:00:00	0~	776
	11:00:00	0~	776
	12:00:00	0~	776
	13:00:00	0~	776
	14:00:00	0~	776
	15:00:00	0~	776
	16:00:00	0~	776
	17:00:00	0~	776
	18:00:00	0~	776
	19:00:00	0~	776
	20:00:00	0~	776
	21:00:00	0~	776
	22:00:00	0~	776
	23:00:00	0~	776
05/27/2006	00:00:00	0~	776
Totals			
Average		11	N/A
Minimum~		0	N/A
Maximum~		43	N/A
Total		776	N/A

Muskego SCADA System
Hourly Log Report

Description: WELL 7 FLOW METER PULSE (W7FM) Units: X1000

Date	Time	Value	Accumulated Value
06/24/2006	08:00:00	43^	43
	09:00:00	42	85
	10:00:00	41	126
	11:00:00	40	166
	12:00:00	42	208
	13:00:00	41	249
	14:00:00	41	290
	15:00:00	41	331
	16:00:00	40	371
	17:00:00	40	411
	18:00:00	40	451
	19:00:00	40	491
	20:00:00	41	532
	21:00:00	28	560
	22:00:00	0~	560
	23:00:00	0~	560
06/25/2006	00:00:00	0~	560
	01:00:00	0~	560
	02:00:00	0~	560
	03:00:00	0~	560
	04:00:00	0~	560
	05:00:00	0~	560
	06:00:00	0~	560
	07:00:00	0~	560
	08:00:00	34	594
	09:00:00	43^	637
	10:00:00	41	678
	11:00:00	41	719
	12:00:00	41	760
	13:00:00	41	801
	14:00:00	41	842
	15:00:00	42	884
	16:00:00	40	924
	17:00:00	40	964
	18:00:00	40	1,004
	19:00:00	40	1,044
	20:00:00	41	1,085
	21:00:00	41	1,126
	22:00:00	40	1,166
	23:00:00	40	1,206
06/26/2006	00:00:00	29	1,235
	01:00:00	0~	1,235
	02:00:00	0~	1,235
	03:00:00	0~	1,235
	04:00:00	0~	1,235
	05:00:00	0~	1,235
	06:00:00	0~	1,235
	07:00:00	1	1,236
	08:00:00	0~	1,236
	09:00:00	0~	1,236
	10:00:00	0~	1,236

Muskego SCADA System
Hourly Log Report

Description: WELL 7 FLOW METER PULSE (W7FM) Units: X1000

Date	Time	Value	Accumulated Value
06/26/2006	11:00:00	0~	1,236
	12:00:00	0~	1,236
	13:00:00	5	1,241
	14:00:00	42	1,283
	15:00:00	41	1,324
	16:00:00	41	1,365
	17:00:00	42	1,407
	18:00:00	13	1,420
	19:00:00	41	1,461
	20:00:00	41	1,502
	21:00:00	41	1,543
	22:00:00	41	1,584
	23:00:00	42	1,626
06/27/2006	00:00:00	28	1,654
	01:00:00	0~	1,654
	02:00:00	0~	1,654
	03:00:00	0~	1,654
	04:00:00	0~	1,654
	05:00:00	0~	1,654
	06:00:00	0~	1,654
	07:00:00	0~	1,654
	08:00:00	4	1,658
	09:00:00	0~	1,658
	10:00:00	0~	1,658
	11:00:00	0~	1,658
	12:00:00	0~	1,658
	13:00:00	0~	1,658
	14:00:00	3	1,661
	15:00:00	43^	1,704
	16:00:00	43^	1,747
	17:00:00	41	1,788
	18:00:00	41	1,829
	19:00:00	41	1,870
	20:00:00	41	1,911
	21:00:00	41	1,952
	22:00:00	41	1,993
	23:00:00	42	2,035
06/28/2006	00:00:00	40	2,075
	01:00:00	8	2,083
	02:00:00	0~	2,083
	03:00:00	0~	2,083
	04:00:00	0~	2,083
	05:00:00	0~	2,083
	06:00:00	0~	2,083
	07:00:00	34	2,117
	08:00:00	41	2,158
	09:00:00	42	2,200
	10:00:00	42	2,242
	11:00:00	41	2,283
	12:00:00	41	2,324
	13:00:00	34	2,358

Muskego SCADA System
Hourly Log Report

Description: WELL 7 FLOW METER PULSE (W7FM) Units: X1000

Date	Time	Value	Accumulated Value
06/28/2006	14:00:00	12	2,370
	15:00:00	41	2,411
	16:00:00	12	2,423
	17:00:00	0~	2,423
	18:00:00	0~	2,423
	19:00:00	0~	2,423
	20:00:00	0~	2,423
	21:00:00	0~	2,423
	22:00:00	0~	2,423
	23:00:00	30	2,453
06/29/2006	00:00:00	43^	2,496
	01:00:00	41	2,537
	02:00:00	41	2,578
	03:00:00	41	2,619
	04:00:00	41	2,660
	05:00:00	41	2,701
	06:00:00	39	2,740
	07:00:00	0~	2,740
- Totals -			
Average		23	N/A
Minimum~		0	N/A
Maximum^		43	N/A
Total		2,740	N/A

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Muskego SCADA System
Hourly Log Report

Description: W7 WELL LEVEL (W7WLLEV) Units: FEET

Date	Time	Value	Minimum	Average	Maximum
06/24/2006	08:00:00	-73	-136	-132	-73
	09:00:00	-136	-137	-136	-136
	10:00:00	-137	-137	-137	-137
	11:00:00	-137	-137	-135	-95
	12:00:00	-137	-138	-137	-137
	13:00:00	-138~	-138	-137	-137
	14:00:00	-137	-137	-137	-137
	15:00:00	-137	-137	-137	-137
	16:00:00	-137	-138	-137	-137
	17:00:00	-137	-138	-138~	-137
	18:00:00	-138~	-138	-138~	-138~
	19:00:00	-138~	-138	-138~	-138~
	20:00:00	-138~	-138	-138~	-138~
	21:00:00	-138~	-138	-120	-72
	22:00:00	-72	-72	-71	-70
	23:00:00	-70	-70	-70	-69
06/25/2006	00:00:00	-69	-70	-69	-69
	01:00:00	-69	-69	-69	-69
	02:00:00	-69	-69	-69	-69
	03:00:00	-69	-69	-69	-69
	04:00:00	-69	-69	-69	-69
	05:00:00	-69	-69	-69	-68
	06:00:00	-68	-68^	-68	-67^
	07:00:00	-68	-68^	-67^	-67^
	08:00:00	-67^	-134	-118	-67^
	09:00:00	-134	-135	-135	-134
	10:00:00	-135	-136	-136	-135
	11:00:00	-136	-137	-136	-136
	12:00:00	-137	-137	-137	-137
	13:00:00	-137	-137	-137	-137
	14:00:00	-137	-137	-137	-137
	15:00:00	-137	-137	-137	-137
	16:00:00	-137	-138	-137	-137
	17:00:00	-138~	-138	-138~	-137
	18:00:00	-138~	-138	-138~	-138~
	19:00:00	-138~	-138	-138~	-138~
	20:00:00	-138~	-138	-138~	-138~
	21:00:00	-138~	-138	-138~	-138~
	22:00:00	-138~	-138	-138~	-138~
	23:00:00	-138~	-138	-138~	-138~
06/26/2006	00:00:00	-138~	-138	-121	-72
	01:00:00	-72	-72	-70	-70
	02:00:00	-70	-70	-69	-69
	03:00:00	-69	-69	-69	-69
	04:00:00	-69	-69	-69	-69
	05:00:00	-69	-69	-69	-69
	06:00:00	-69	-69	-69	-68
	07:00:00	-68	-101	-70	-68
	08:00:00	-69	-69	-69	-68
	09:00:00	-69	-69	-69	-69
	10:00:00	-69	-69	-69	-68
	11:00:00	-69	-69	-69	-69

Muskego SCADA System
Hourly Log Report

Description: W7 WELL LEVEL (W7WLLEV) Units: FEET

Date	Time	Value	Minimum	Average	Maximum
06/26/2006	12:00:00	-69	-69	-69	-69
	13:00:00	-69	-131	-75	-69
	14:00:00	-131	-135	-134	-131
	15:00:00	-135	-135	-135	-135
	16:00:00	-135	-136	-136	-135
	17:00:00	-136	-136	-136	-136
	18:00:00	-136	-136	-90	-70
	19:00:00	-134	-136	-135	-134
	20:00:00	-136	-137	-136	-136
	21:00:00	-136	-137	-137	-136
	22:00:00	-137	-137	-137	-137
	23:00:00	-137	-137	-137	-137
06/27/2006	00:00:00	-137	-137	-120	-73
	01:00:00	-73	-73	-71	-70
	02:00:00	-70	-70	-69	-67^
	03:00:00	-68	-69	-68	-68
	04:00:00	-68	-68^	-68	-68
	05:00:00	-68	-68^	-68	-67^
	06:00:00	-67^	-69	-69	-67^
	07:00:00	-69	-69	-69	-68
	08:00:00	-69	-129	-74	-68
	09:00:00	-69	-69	-69	-69
	10:00:00	-69	-69	-69	-69
	11:00:00	-69	-69	-69	-69
	12:00:00	-69	-69	-69	-69
	13:00:00	-69	-69	-69	-69
	14:00:00	-69	-127	-72	-69
	15:00:00	-127	-135	-133	-127
	16:00:00	-135	-135	-135	-135
	17:00:00	-135	-136	-136	-135
	18:00:00	-136	-137	-136	-136
	19:00:00	-136	-137	-137	-136
	20:00:00	-137	-137	-137	-137
	21:00:00	-137	-137	-137	-137
	22:00:00	-137	-138	-138~	-137
	23:00:00	-138~	-138	-138~	-137
06/28/2006	00:00:00	-138~	-138	-138~	-137
	01:00:00	-137	-138	-86	-71
	02:00:00	-71	-71	-70	-70
	03:00:00	-70	-70	-70	-69
	04:00:00	-70	-70	-70	-69
	05:00:00	-70	-70	-70	-69
	06:00:00	-70	-70	-69	-69
	07:00:00	-69	-136	-119	-69
	08:00:00	-136	-137	-136	-136
	09:00:00	-137	-137	-137	-137
	10:00:00	-137	-138	-137	-137
	11:00:00	-137	-138	-138~	-137
	12:00:00	-138~	-138	-138~	-138~
	13:00:00	-138~	-139~	-130	-75
	14:00:00	-75	-135	-88	-71
	15:00:00	-135	-137	-136	-135

Muskego SCADA System
Hourly Log Report

Description: W7 WELL LEVEL (W7WLLEV) Units: FEET

Date	Time	Value	Minimum	Average	Maximum
06/28/2006	16:00:00	-137	-137	-93	-72
	17:00:00	-72	-72	-71	-71
	18:00:00	-71	-71	-71	-71
	19:00:00	-71	-71	-69	-69
	20:00:00	-70	-70	-69	-69
	21:00:00	-69	-69	-69	-69
	22:00:00	-69	-69	-69	-69
	23:00:00	-69	-135	-113	-69
06/29/2006	00:00:00	-135	-136	-136	-135
	01:00:00	-136	-136	-136	-136
	02:00:00	-136	-136	-136	-135
	03:00:00	-136	-136	-136	-136
	04:00:00	-136	-137	-137	-136
	05:00:00	-137	-137	-137	-137
	06:00:00	-137	-138	-135	-78
	07:00:00	-78	-78	-69	-67^
Totals					
Average		-106	-111	-107	-101
Minimum~		-138	-139	-138	-138
Maximum^		-67	-68	-67	-67
Total		N/A	N/A	N/A	N/A

Attn. Kate Keller
1 of 2

MUSKEGO WATER UTILITY

Monthly Report on Pumpage, Chemical Addition and Water Levels

DNR station or well identifier: WELL NUMBER 7
Utility station or well identifier: WELL NUMBER 7
Station or well address: JANESVILLE RD.

Report For: July 2007
Waterworks office address: Waukesha County, Wisconsin

Chemical No. 1: 12.5% SODIUM HYPOCHLORIDE
Chemical No. 2: PQ TYPE N SODIUM SILICATE

Public Water System ID#: 268174170

Day	Volume Pumped (Gal x 1000)	Well Water Level (Feet below top of casing) (PWL)	(SWL)	Chem. No.1 (Pounds Chemical Used) 12.50%	Chem. No.1 Calculated Dosage (MG/L)	Chem. No.2 (Pounds Chemical Used)	Chem. No.2 Calculated Dosage (MG/L)
1	6	16	16	0.0	0.00	0.4	2.29
2	992	101	16	130.0	1.96	72.0	2.50
3	981	106	101	125.0	1.91	80.0	2.81
4	1,050	109		151.0	2.16	80.5	2.64
5	1,003	110		69.0	1.03	61.2	2.10
6	0		20	0.0	0	0.0	0
7	224	89	19	43.0	2.88	18.5	2.84
8	333	88	18	61.0	2.75	25.4	2.62
9	601	90	19	100.0	2.49	47.8	2.74
10	32	92	19	6.0	2.81	0.2	0.22
11	1	69	17	0.0	0.00	0.2	6.88
12	462	88	17	76.0	2.47	22.7	1.69
13	354	90	19	57.0	2.41	28.1	2.73
14	593	92	19	98.0	2.48	47.1	2.73
15	702	93	21	113.0	2.41	56.5	2.77
16	16	92	20	0.2	0.19	0.2	0.39
17	162	92	19	21.8	2.02	12.5	2.66
18	1	70	18	0.3	4.50	0.0	0.00
19	1	71	18	0.0	0.00	0.1	3.44
20	1	69	18	0.1	1.50	0.1	3.44
21	334	90	17	52.9	2.37	26.2	2.70
22	531	92	19	85.0	2.40	42.6	2.76
23	653	93	21	108.7	2.49	53.1	2.80
24	610	95	22	103.8	2.55	50.1	2.83
25	438	93	23	74.4	2.55	36.0	2.83
26	304	92	22	48.5	2.39	25.8	2.92
27	0	22	19	0.0	0	0.0	0
28	440	91	19	63.1	2.15	35.4	2.77
29	744	94	20	123.6	2.49	62.0	2.87
30	593	95	22	100.9	2.55	49.7	2.88
31	916	96	23	159.6	2.61	76.9	2.89
Minimum	0	16	16	0.0	0.00	0.0	0.00
Maximum	1050	110	101	159.6	4.50	80.5	6.88
Average	422	86	22	63.6	2.09	32.6	2.61
Total	13,078	NA	NA	1971.9	NA	1011.2	NA

Chemical Dilutions: Chem. No. 1 - None
Chem. No. 2 - None
Chem. No. 3 - None

Signature of Certified Operator

Notes:
Reported pounds of chemical added includes inactive ingredients.
Calculated dosage is based on active agent added.

Scott Kloskowski Cert. No. 18032

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2 of 2

MUSKEGO WATER UTILITY

Monthly Report on Pumpage, Chemical Addition and Water Levels

DNR station or well identifier: WELL NUMBER 7
Utility station or well identifier: WELL NUMBER 7
Station or well address: JANESVILLE RD.

Report For: June 2007
Waterworks office address: Waukesha County, Wisconsin

Chemical No. 1: 12.5% SODIUM HYPOCHLORIDE
Chemical No. 2: PQ TYPE N SODIUM SILICATE

Public Water System ID#: 268174170

Day	Volume Pumped (Gal x 1000)	Well Water Level (Feet below top of casing) (PWL)	(SWL)	Chem. No.1 (Pounds Chemical Used) 12.50%	Chem. No.1 Calculated Dosage (MG/L)	Chem. No.2 (Pounds Chemical Used)	Chem. No.2 Calculated Dosage (MG/L)
1	1	87	18	0.0	0.00	0.0	0.00
2	8	18	16	0.1	0.19	0.1	0.43
3	335	85	16	76.9	3.44	27.9	2.87
4	26	18	16	7.9	4.55	2.2	2.91
5	295	83	16	127.4	6.47	23.5	2.74
6	1	81	16	0.1	1.50	0.1	3.44
7	2	69	15	0.1	0.75	0.1	1.05
8	0	15	15	0.0	0	0.0	0
9	0	15	15	0.0	0	0.0	0
10	32	15	15	5.2	2.44	2.4	2.58
11	560	84	15	64.2	1.72	45.6	2.80
12	97	83	17	11.8	1.82	7.9	2.80
13	410	83	17	50.7	1.85	34.4	2.89
14	242	84	18	31.6	1.96	5.3	0.75
15	279	85	17	35.8	1.92	11.1	1.37
16	370	86	17	48.6	1.97	29.8	2.77
17	322	86	18	41.6	1.94	25.7	2.75
18	272	84	18	37.2	2.05	22.9	2.90
19	340	85	17	47.7	2.10	30.3	3.07
20	5			1.3	3.90	0.1	0.69
21	103	17	16	15.7	2.28	8.8	2.94
22	295	80	16	39.9	2.03	25.7	3.00
23	448	81	18	60.2	2.01	38.9	2.99
24	555	82	19	74.1	2.00	48.5	3.01
25	144	82	18	18.5	1.93	11.7	2.80
26	258	80	18	35.3	2.05	21.8	2.91
27	663	83	17	137.3	3.10	58.8	3.05
28	306	85	20	45.0	2.20	27.2	3.06
29	0	81	18	0.0	0	0.0	0
30	0	18	16	0.0	0	0.0	0
31							
Minimum	0	15	15	0.0	0.00	0.0	0.00
Maximum	663	87	20	137.3	6.47	58.8	3.44
Average	212	67	17	33.8	2.24	17.0	2.41
Total	6,369	NA	NA	1014.2	NA	510.8	NA

Chemical Dilutions: Chem. No. 1 - None
Chem. No. 2 - None
Chem. No. 3 - None

Signature of Certified Operator

Notes:
Reported pounds of chemical added includes inactive ingredients.
Calculated dosage is based on active agent added.

Scott Kloskowski Cert. No. 18032

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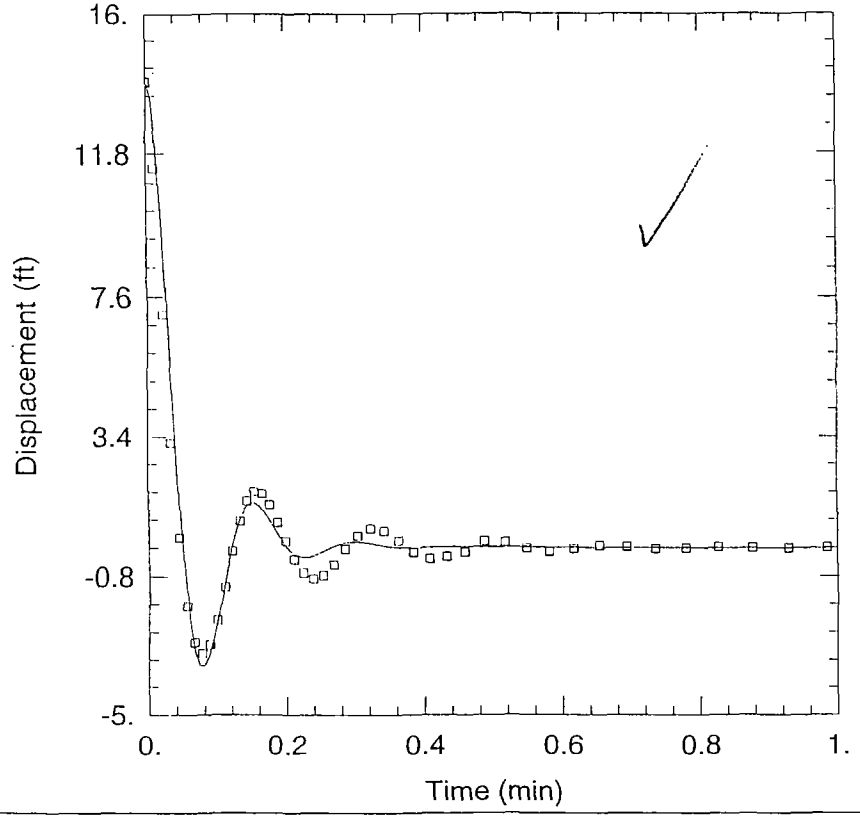
FIG. 12

FIG 13

FIG. 14

FIG. 15

Appendix H
Hydraulic Conductivity Logs



MW01 SLUG TEST

Data Set: P:\7133\02\slug tests\MW01.aqt
Date: 08/30/06 Time: 10:59:17

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW01
Test Date: 3/24/06

SOLUTION

Aquifer Model: Confined
Solution Method: Butler-Zhan

Kr = 0.08708 cm/sec
Ss = 6.667E-6 ft^{-1}
Kz/Kr = 1.
Le = 66.71 ft
Le(o) = 1.031 ft

AQUIFER DATA

Saturated Thickness: 6. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW01)

Initial Displacement: 13.9 ft
Total Well Penetration Depth: 6. ft
Casing Radius: 0.0833 ft

Static Water Column Height: 6. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

MW 9/5/06

Data Set: P:\7133\02\slug tests\MW01.aqt
Title: MW01 Slug Test
Date: 08/30/06
Time: 10:59:27

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/24/06
Test Well: MW01

AQUIFER DATA

Saturated Thickness: 6. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW01

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13.9 ft
Static Water Column Height: 6. ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 6. ft

No. of Observations: 86

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	13.91	0.3848	-0.102	2.098	0.018
0.011	11.39	0.4083	-0.291	2.223	0.018
0.022	7.085	0.4332	-0.224	2.355	0.018
0.033	3.198	0.4595	-0.106	2.496	0.018
0.044	0.333	0.4875	0.223	2.644	0.018
0.055	-1.697	0.5172	0.182	2.802	0.018
0.066	-2.789	0.5485	0.006	2.969	0.015
0.077	-3.118	0.5817	-0.084	3.146	0.015
0.088	-2.856	0.6168	0.002	3.333	0.015
0.099	-2.121	0.6542	0.096	3.531	0.013
0.11	-1.119	0.6937	0.065	3.741	0.013
0.121	-0.064	0.7355	-0.003	3.964	0.011

N

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.132	0.829	0.7798	0.015	4.2	0.011
0.143	1.44	0.8268	0.054	4.45	0.011
0.154	1.713	0.8767	0.029	4.715	0.009
0.165	1.657	0.9293	0.018	4.995	0.009
0.176	1.328	0.9852	0.036	5.292	0.009
0.187	0.791	1.044	0.027	5.606	0.009
0.1987	0.234	1.107	0.024	5.939	0.009
0.2112	-0.312	1.173	0.029	6.292	0.004
0.2243	-0.704	1.244	0.024	6.666	0.006
0.2383	-0.871	1.318	0.027	7.062	0.002
0.2532	-0.781	1.397	0.024	7.481	0.
0.2688	-0.467	1.481	0.022	7.926	-0.003
0.2855	-0.014	1.569	0.024	8.396	-0.003
0.3032	0.392	1.663	0.024	8.895	-0.003
0.3218	0.604	1.763	0.022	9.423	-0.003
0.3417	0.538	1.868	0.022	9.982	0.
0.3627	0.243	1.979	0.027		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler-Zhan

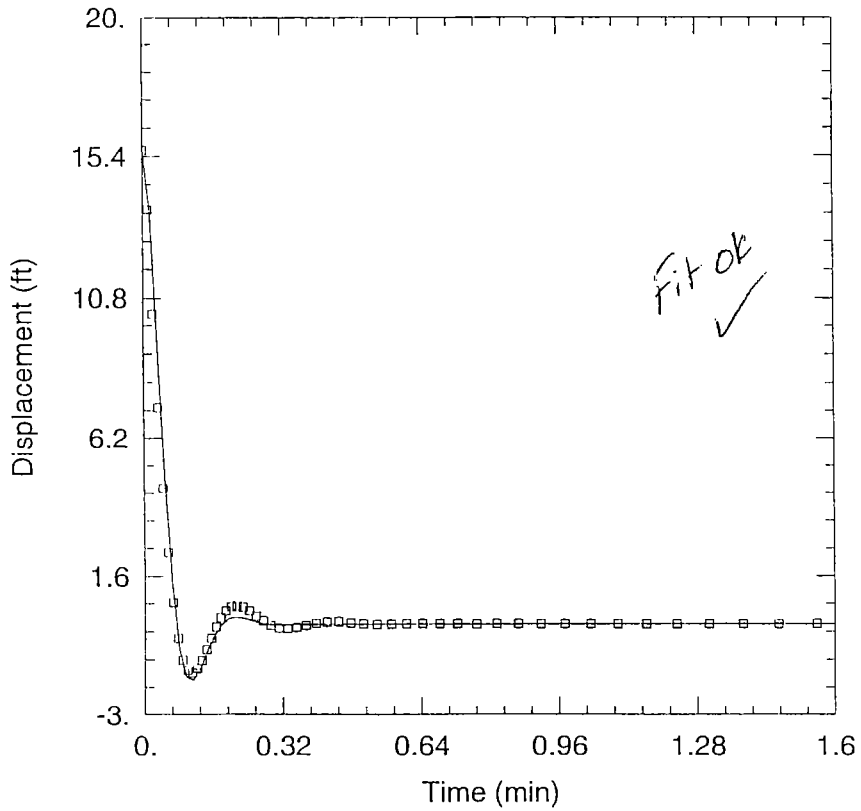
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	0.08708	cm/sec
Ss	6.667E-6	ft^{-1}
Kz/Kr	1.	
Le	66.71	ft
Le(o)	1.031	ft

$T = T^*b = 15.93\ cm^2/sec$

W



MW01A SLUG TEST

Data Set: P:\7133\02\slug tests\MW01A.aqt
Date: 09/06/06 Time: 13:12:05

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW01A
Test Date: 3/24/06

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.03369 cm/sec
Le = 90.17 ft

AQUIFER DATA

Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW01A)

Initial Displacement: 15.6 ft
Total Well Penetration Depth: 7. ft
Casing Radius: 0.083 ft

Static Water Column Height: 9. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

MW 9/7/06

5

Data Set: P:\7133\02\slug tests\MW01A.aqt
Title: MW01A Slug Test
Date: 09/06/06
Time: 13:12:11

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/24/06
Test Well: MW01A

AQUIFER DATA

Saturated Thickness: 9. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW01A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 15.6 ft
Static Water Column Height: 9. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 7. ft

No. of Observations: 68

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	15.59	0.2745	0.111	1.096	0.005
0.011	13.66	0.2922	-0.036	1.162	0.005
0.022	10.25	0.3108	-0.124	1.233	0.003
0.033	7.208	0.3307	-0.144	1.307	0.003
0.044	4.512	0.3517	-0.103	1.386	0.
0.055	2.377	0.3738	-0.036	1.47	0.003
0.066	0.713	0.3973	0.034	1.558	0.003
0.077	-0.458	0.4222	0.075	1.652	0.003
0.088	-1.175	0.4485	0.082	1.752	0.
0.099	-1.527	0.4765	0.043	1.857	0.
0.11	-1.602	0.5062	0.009	1.968	0.
0.121	-1.466	0.5375	-0.006	2.087	0.

6

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.132	-1.193	0.5707	0.003	2.212	0.
0.143	-0.839	0.6058	0.012	2.344	0.
0.154	-0.458	0.6432	0.018	2.485	0.
0.165	-0.083	0.6827	0.014	2.634	0.
0.176	0.23	0.7245	0.009	2.791	0.
0.1877	0.44	0.7688	0.005	2.958	0.
0.2002	0.571	0.8158	0.009	3.135	0.
0.2133	0.609	0.8657	0.007	3.322	0.
0.2273	0.562	0.9183	0.005	3.52	0.
0.2422	0.443	0.9742	0.005	3.731	0.
0.2578	0.28	1.033	0.005		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.3335

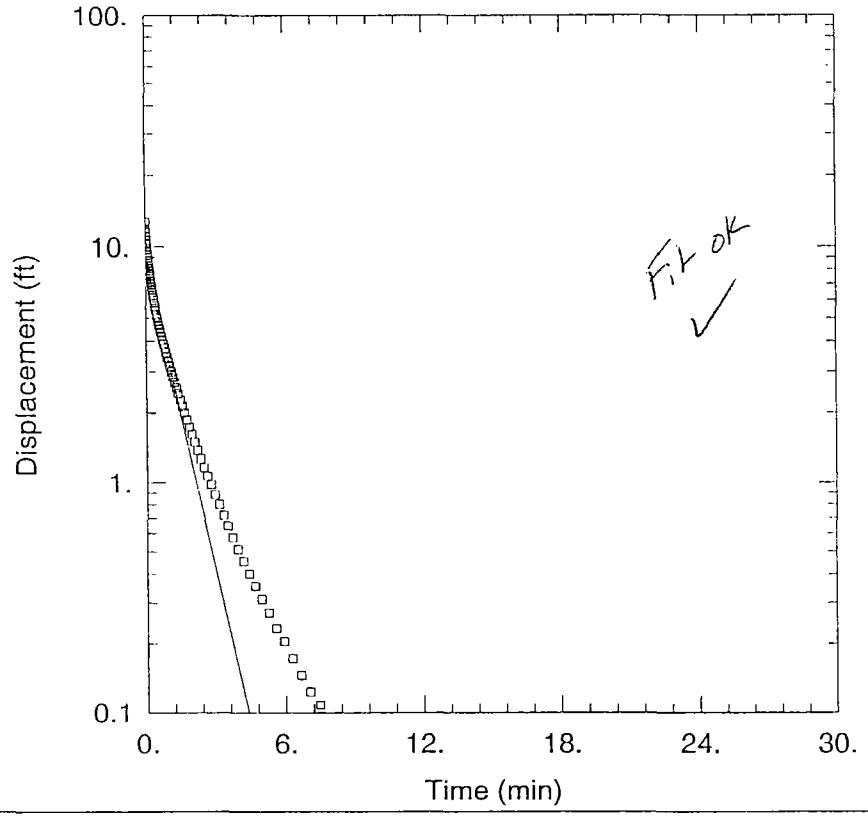
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.03369	cm/sec
Le	90.17	ft

$T = T^*b = 9.241$ cm²/sec
Le = 90.17 ft
Solution is critically damped when C(D) = 1.

8



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW01B.aqt
Date: 09/06/06 Time: 13:13:54

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW01B
Test Date: 3/24/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.001072 cm/sec
y0 = 8.96 ft

AQUIFER DATA

Saturated Thickness: 3. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW01B)

Initial Displacement: 12.7 ft
Total Well Penetration Depth: 3. ft
Casing Radius: 0.083 ft

Static Water Column Height: 3. ft
Screen Length: 3. ft
Well Radius: 0.25 ft

MLW
9/7/06

AQTESOLV for Windows

Data Set: P:\7133\02\slug tests\MW01B.aqt
Date: 09/06/06
Time: 13:14:00

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/24/06
Test Well: MW01B

AQUIFER DATA

Saturated Thickness: 3. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW01B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 12.7 ft
Static Water Column Height: 3. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 3. ft
Total Well Penetration Depth: 3. ft

No. of Observations: 102

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	12.73	0.5375	4.825	3.953	0.512
0.011	11.85	0.5707	4.667	4.189	0.455
0.022	11.46	0.6058	4.509	4.439	0.401
0.033	11.06	0.6432	4.354	4.704	0.354
0.044	10.66	0.6827	4.201	4.984	0.311
0.055	10.31	0.7245	4.045	5.281	0.273
0.066	10.01	0.7688	3.892	5.595	0.234
0.077	9.713	0.8158	3.737	5.928	0.205
0.088	9.441	0.8657	3.586	6.281	0.173
0.099	9.189	0.9183	3.435	6.655	0.146
0.11	8.948	0.9742	3.286	7.051	0.124
0.121	8.723	1.033	3.135	7.47	0.108
0.132	8.512	1.096	2.989	7.915	0.092

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.143	8.309	1.162	2.84	8.385	0.076
0.154	8.123	1.233	2.693	8.884	0.065
0.165	7.94	1.307	2.552	9.412	0.056
0.176	7.76	1.386	2.41	9.971	0.045
0.1877	7.6	1.47	2.268	10.56	0.038
0.2002	7.436	1.558	2.132	11.19	0.031
0.2133	7.27	1.652	1.999	11.86	0.025
0.2273	7.105	1.752	1.866	12.56	0.018
0.2422	6.941	1.857	1.742	13.31	0.016
0.2578	6.774	1.968	1.618	14.1	0.011
0.2745	6.61	2.087	1.497	14.93	0.007
0.2922	6.45	2.212	1.382	15.82	0.007
0.3108	6.286	2.344	1.271	16.76	0.007
0.3307	6.126	2.485	1.165	17.75	0.004
0.3517	5.962	2.634	1.066	18.81	0.002
0.3738	5.8	2.791	0.974	19.92	0.004
0.3973	5.64	2.958	0.881	21.1	0.004
0.4222	5.48	3.135	0.8	22.36	-0.002
0.4485	5.403	3.322	0.719	23.68	0.
0.4765	5.147	3.52	0.647	25.09	0.
0.5062	4.984	3.731	0.575	26.58	0.

SOLUTION

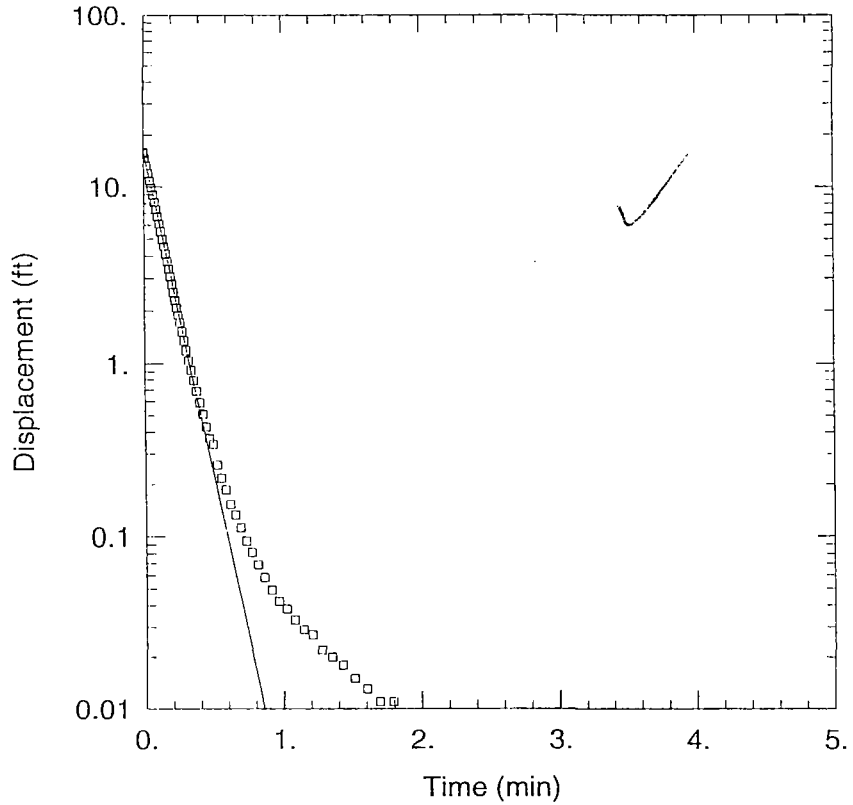
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 1.793

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.001072	cm/sec
y0	8.96	ft

T = T*b = 0.09801 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW02.aqt
Date: 08/30/06 Time: 11:01:12

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW02
Test Date: 3/23/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.007228 cm/sec
y0 = 15.96 ft

AQUIFER DATA

Saturated Thickness: 22. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW02)

Initial Displacement: 16. ft
Total Well Penetration Depth: 17. ft
Casing Radius: 0.0833 ft

Static Water Column Height: 17. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

9/5/06

AQTESOLV for Windows

Data Set: P:\7133\02\slug tests\MW02.aqt
Date: 08/30/06
Time: 11:01:22

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/23/06
Test Well: MW02

AQUIFER DATA

Saturated Thickness: 22. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW02

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 16. ft
Static Water Column Height: 17. ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 17. ft

No. of Observations: 77

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	15.69	0.3018	1.188	1.277	0.022
0.011	14.77	0.3185	1.044	1.351	0.02
0.022	13.3	0.3362	0.915	1.43	0.018
0.033	12.	0.3548	0.794	1.514	0.015
0.044	10.86	0.3747	0.688	1.602	0.013
0.055	9.86	0.3957	0.591	1.696	0.011
0.066	8.946	0.4178	0.507	1.796	0.011
0.077	8.12	0.4413	0.43	1.901	0.009
0.088	7.37	0.4662	0.367	2.012	0.006
0.099	6.688	0.4925	0.34	2.131	0.006
0.11	6.068	0.5205	0.259	2.256	0.004
0.121	5.51	0.5502	0.216	2.388	0.004
0.132	4.994	0.5815	0.185	2.529	0.004

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.143	4.534	0.6147	0.153	2.678	0.004
0.154	4.113	0.6498	0.133	2.835	0.004
0.165	3.732	0.6872	0.112	3.002	0.002
0.176	3.382	0.7267	0.094	3.168	0.002
0.187	3.069	0.7685	0.081	3.335	0.002
0.198	2.787	0.8128	0.069	3.502	0.002
0.209	2.53	0.8598	0.058	3.668	0.
0.22	2.287	0.9097	0.049	3.835	0.
0.2317	2.079	0.9623	0.042	4.002	0.
0.2442	1.881	1.018	0.038	4.168	0.
0.2573	1.689	1.077	0.033	4.335	0.
0.2713	1.511	1.14	0.029	4.502	0.
0.2862	1.344	1.206	0.027		

SOLUTION

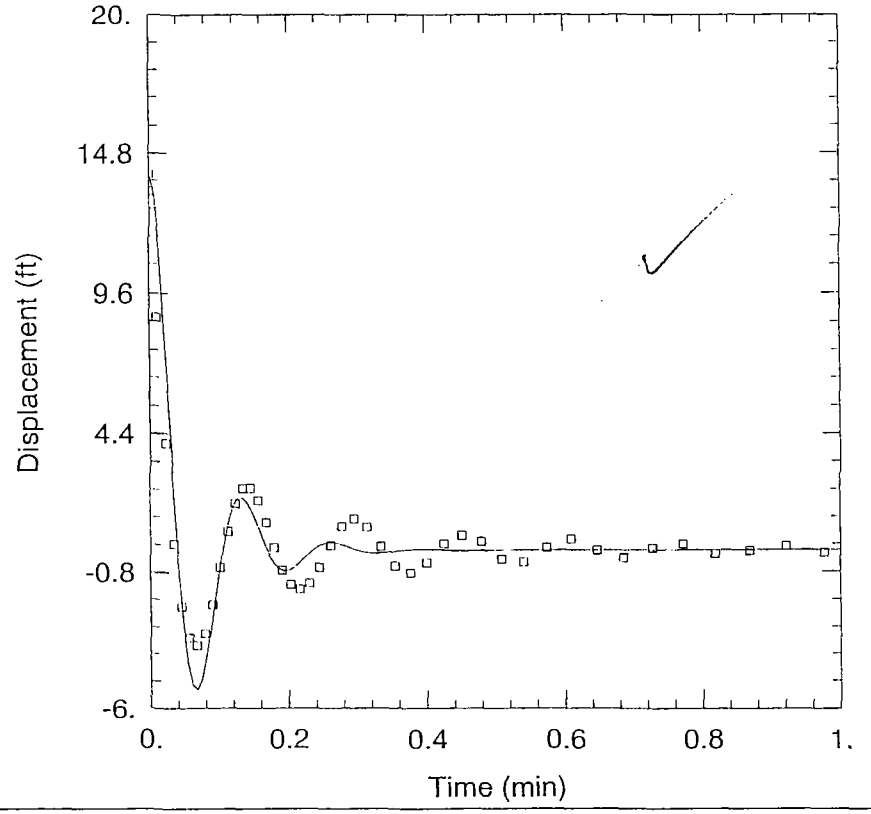
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.388

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.007228	cm/sec
y0	15.96	ft

T = T*b = 4.847 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW03.aqt
Date: 09/06/06 Time: 13:19:28

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW03
Test Date: 3/24/06

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.1104 cm/sec
Le = 45.48 ft

AQUIFER DATA

Saturated Thickness: 14. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW03)

Initial Displacement: 14. ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft

Static Water Column Height: 5. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

MW
9/7/06

Data Set: P:\7133\02\slug tests\MW03.aqt
Date: 09/06/06
Time: 13:19:33

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/24/06
Test Well: MW03

AQUIFER DATA

Saturated Thickness: 14. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW03

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 14. ft
Static Water Column Height: 5. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 5. ft

No. of Observations: 81

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	13.35	0.3543	-0.586	1.754	-0.004
0.0111	8.706	0.3765	-0.841	1.859	0.007
0.0223	4.008	0.4	-0.471	1.971	0.009
0.0335	0.248	0.4248	0.251	2.089	0.005
0.0446	-2.12	0.4511	0.555	2.214	0.005
0.0558	-3.325	0.4791	0.323	2.347	0.005
0.067	-3.625	0.5088	-0.349	2.487	0.005
0.0781	-3.151	0.5401	-0.451	2.636	0.005
0.0893	-2.048	0.5733	0.1	2.794	0.005
0.1005	-0.631	0.6085	0.413	2.96	0.005
0.1116	0.717	0.6458	-0.011	3.127	0.005
0.1228	1.773	0.6853	-0.302	3.294	0.005
0.134	2.352	0.7271	0.073	3.46	0.005

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1451	2.363	0.7715	0.217	3.627	0.003
0.1563	1.881	0.8185	-0.148	3.794	0.003
0.1675	1.051	0.8683	-0.036	3.96	0.003
0.1786	0.109	0.921	0.145	4.127	0.003
0.1903	-0.737	0.9768	-0.101	4.294	0.003
0.2028	-1.274	1.036	0.043	4.46	0.003
0.216	-1.454	1.099	0.025	4.627	0.003
0.23	-1.227	1.165	-0.029	4.794	0.003
0.2448	-0.629	1.235	0.048	4.96	0.003
0.2605	0.181	1.31	-0.027	5.127	0.003
0.2771	0.898	1.389	0.032	5.294	0.003
0.2948	1.184	1.472	-0.004	5.46	0.
0.3135	0.875	1.561	0.007	5.627	0.
0.3333	0.145	1.655	0.012	5.794	0.

SOLUTION

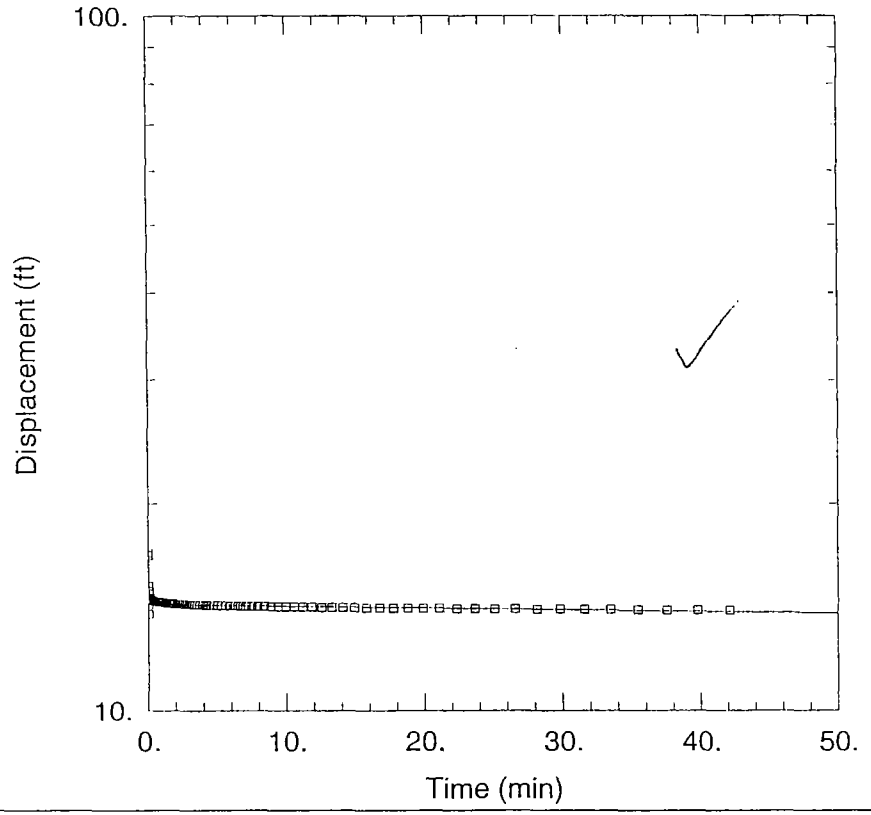
Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.271

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.1104	cm/sec
Le	45.48	ft

T = T*b = 47.12 cm²/sec
Le = 45.48 ft
Solution is critically damped when C(D) = 1.



MW03A SLUG TEST

Data Set: P:\7133\02\slug tests\MW03A.aqt
Date: 09/06/06 Time: 13:15:59

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW03A
Test Date: 3/24/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 9.116E-7 cm/sec
y0 = 14.28 ft

AQUIFER DATA

Saturated Thickness: 1.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW03A)

Initial Displacement: 17. ft
Total Well Penetration Depth: 1.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 1.5 ft
Screen Length: 1.5 ft
Well Radius: 0.25 ft

MW
9/5/06

21

Data Set: P:\7133\02\slug tests\MW03A.aqt
Title: MW03A Slug Test
Date: 09/06/06
Time: 13:16:07

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/24/06
Test Well: MW03A

AQUIFER DATA

Saturated Thickness: 1.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW03A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 17. ft
Static Water Column Height: 1.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 1.5 ft
Total Well Penetration Depth: 1.5 ft

No. of Observations: 110

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	16.84	0.6458	14.41	5.598	14.22
0.0111	15.18	0.6853	14.41	5.931	14.22
0.0223	13.82	0.7271	14.4	6.284	14.21
0.0335	14.28	0.7715	14.4	6.658	14.2
0.0446	14.93	0.8185	14.39	7.054	14.2
0.0558	14.57	0.8683	14.39	7.473	14.2
0.067	14.56	0.921	14.38	7.917	14.19
0.0781	14.68	0.9768	14.38	8.388	14.19
0.0893	14.52	1.036	14.37	8.886	14.18
0.1005	14.56	1.099	14.37	9.415	14.17
0.1116	14.59	1.165	14.36	9.974	14.17
0.1228	14.53	1.235	14.35	10.57	14.16

22

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.134	14.56	1.31	14.35	11.19	14.16
0.1451	14.55	1.389	14.34	11.86	14.15
0.1563	14.53	1.472	14.34	12.56	14.15
0.1675	14.54	1.561	14.33	13.31	14.14
0.1786	14.53	1.655	14.33	14.1	14.13
0.1903	14.52	1.754	14.33	14.94	14.13
0.2028	14.52	1.859	14.32	15.82	14.12
0.216	14.51	1.971	14.32	16.76	14.11
0.23	14.51	2.089	14.31	17.76	14.1
0.2448	14.5	2.214	14.31	18.81	14.09
0.2605	14.5	2.347	14.3	19.93	14.09
0.2771	14.49	2.487	14.29	21.11	14.08
0.2948	14.49	2.636	14.29	22.36	14.07
0.3135	14.48	2.794	14.28	23.69	14.06
0.3333	14.48	2.961	14.28	25.09	14.06
0.3543	14.47	3.137	14.27	26.58	14.05
0.3765	14.47	3.325	14.27	28.16	14.05
0.4	14.46	3.523	14.26	29.83	14.04
0.4248	14.45	3.733	14.26	31.59	14.03
0.4511	14.45	3.956	14.25	33.47	14.02
0.4791	14.44	4.192	14.25	35.45	14.01
0.5088	14.44	4.441	14.24	37.56	14.
0.5401	14.43	4.706	14.24	39.78	13.99
0.5733	14.43	4.987	14.23	42.14	13.98
0.6085	14.42	5.283	14.23		

SOLUTION

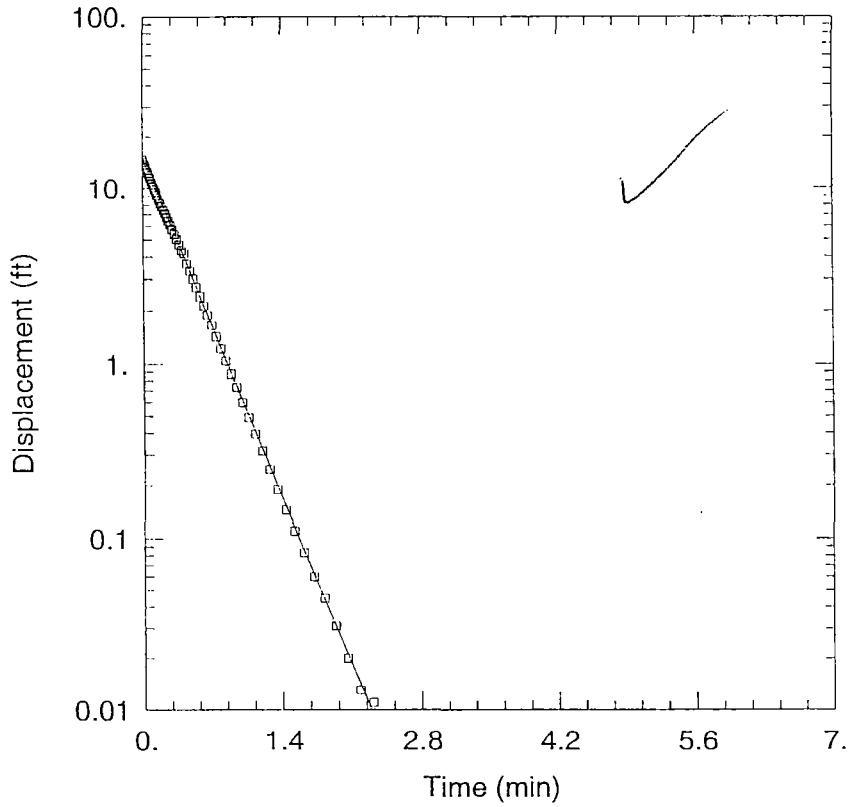
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 1.286

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	9.116E-7	cm/sec
y0	14.28	ft

T = T*b = 4.168E-5 cm²/sec



MW04 SLUG TEST

Data Set: P:\7133\02\slug tests\MW04.aqt
Date: 08/30/06 Time: 11:12:35

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW04
Test Date: 3/29/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.002483 cm/sec
y0 = 15.05 ft

AQUIFER DATA

Saturated Thickness: 68.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW04)

Initial Displacement: 14.75 ft
Total Well Penetration Depth: 19. ft
Casing Radius: 0.083 ft

Static Water Column Height: 19. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

MW
9/5/06

Data Set: P:\7133\02\slug tests\MW04.aqt
Title: MW04 Slug Test
Date: 08/30/06
Time: 11:12:45

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/29/06
Test Well: MW04

AQUIFER DATA

Saturated Thickness: 68.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW04

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 14.75 ft
Static Water Column Height: 19. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 19. ft

No. of Observations: 75

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	14.69	0.3408	5.023	1.619	0.083
0.011	14.23	0.3643	4.679	1.718	0.06
0.022	13.8	0.3892	4.343	1.824	0.045
0.033	13.18	0.4155	4.176	1.935	0.031
0.044	12.82	0.4435	3.642	2.054	0.02
0.055	12.31	0.4732	3.32	2.179	0.013
0.066	11.88	0.5045	3.005	2.311	0.011
0.077	11.39	0.5377	2.703	2.452	0.006
0.088	10.95	0.5728	2.414	2.6	0.004
0.099	10.53	0.6102	2.139	2.758	0.004
0.11	10.15	0.6497	1.882	2.925	0.004
0.121	9.784	0.6915	1.646	3.102	0.004

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.132	9.437	0.7358	1.425	3.289	0.002
0.143	9.086	0.7828	1.222	3.487	0.002
0.1547	8.774	0.8327	1.039	3.697	0.002
0.1672	8.45	0.8853	0.877	3.92	0.002
0.1803	8.119	0.9412	0.728	4.156	0.
0.1943	7.786	1.	0.599	4.406	0.002
0.2092	7.446	1.063	0.489	4.67	0.
0.2248	7.102	1.129	0.394	4.951	0.
0.2415	6.759	1.2	0.315	5.248	0.
0.2592	6.413	1.274	0.248	5.562	0.002
0.2778	6.061	1.353	0.189	5.895	0.002
0.2977	5.717	1.437	0.146	6.248	0.
0.3187	5.368	1.525	0.11	6.622	0.

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.219

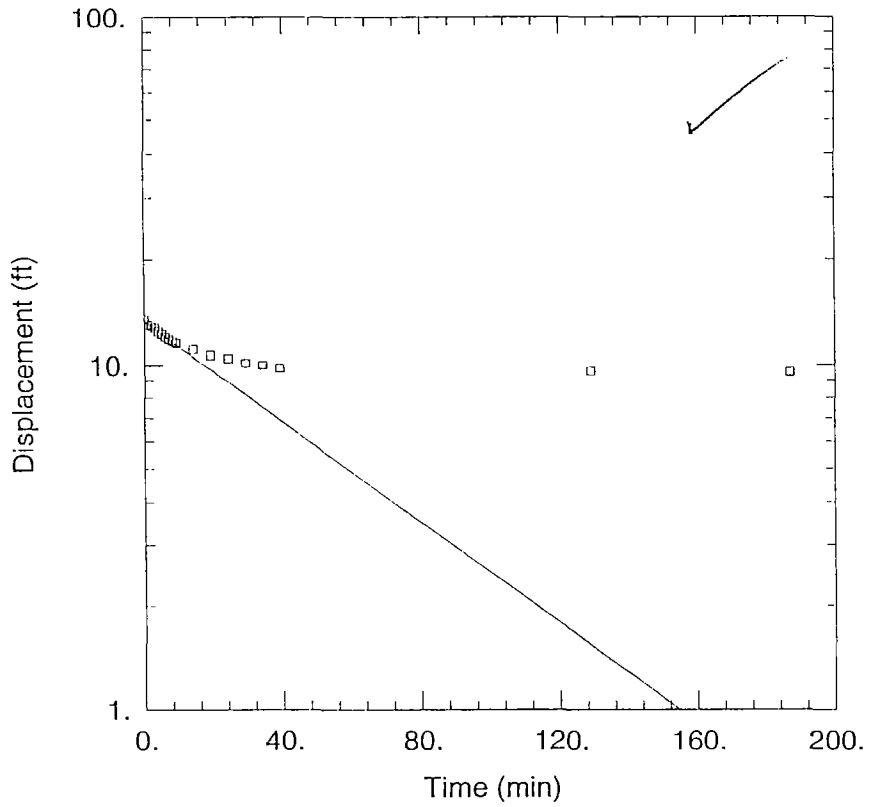
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.002483	cm/sec
y0	15.05	ft

$T = T^*b = 5.184$ cm²/sec

27



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW04A.aqt
Date: 09/06/06 Time: 13:21:10

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW04A
Test Date: 4/10/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 2.173E-5 ft/min
y0 = 13.3 ft

AQUIFER DATA

Saturated Thickness: 6.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW04A)

Initial Displacement: 13.5 ft
Total Well Penetration Depth: 6.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 6.5 ft
Screen Length: 6.5 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

MW 9/7/06

52

Data Set: P:\7133\02\slug tests\MW04A.aqt
Date: 09/06/06
Time: 13:21:16

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 4/10/06
Test Well: MW04A

AQUIFER DATA

Saturated Thickness: 6.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW04A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13.5 ft
Static Water Column Height: 6.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 6.5 ft
Total Well Penetration Depth: 6.5 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.083 ft
Gravel Pack Porosity: 0.

No. of Observations: 18

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	13.5	6.	12.04	24.	10.43
1.	13.04	7.	11.87	29.	10.14
2.	12.92	8.	11.71	34.	9.98
3.	12.76	9.	11.58	39.	9.79
4.	12.46	14.	11.08	129.	9.57
5.	12.27	19.	10.66	187.	9.52

SOLUTION

Slug Test
Aquifer Model: Confined

Solution Method: Bouwer-Rice
ln(Re/rw): 2.448

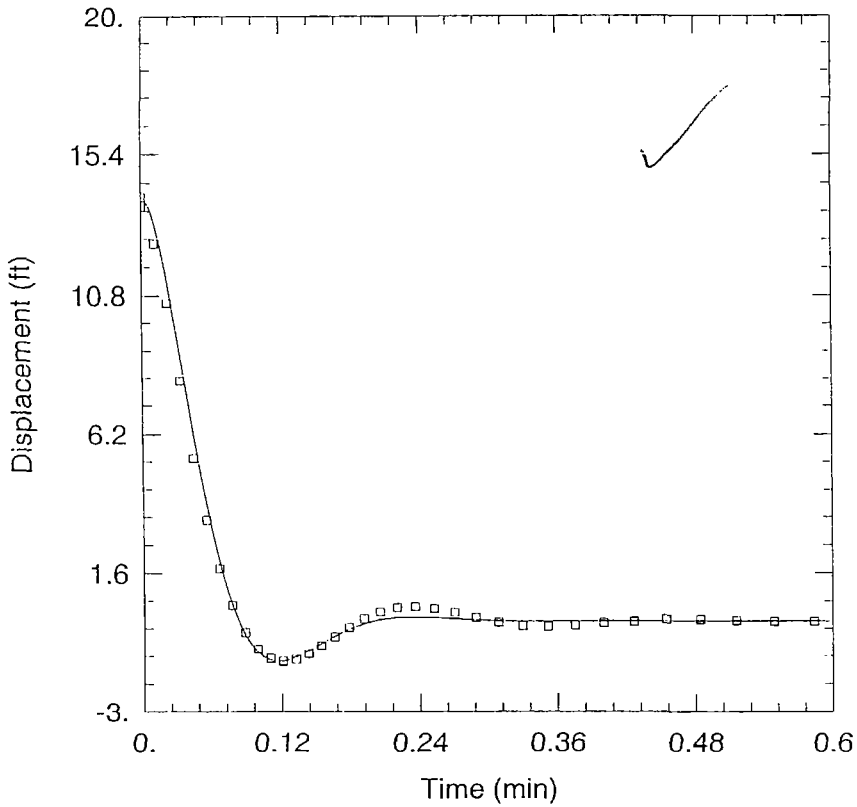
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.173E-5	ft/min
y0	13.3	ft

K = 1.104E-5 cm/sec
T = T*b = 0.0001412 ft²/min (0.002187 sq. cm/sec)

(3)



MW05 SLUG TEST

Data Set: P:\7133\02\slug tests\MW05.aqt
Date: 08/30/06 Time: 11:20:25

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego
Test Well: MW05
Test Date: 3/29/06

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.04246 cm/sec
Le = 102.6 ft

AQUIFER DATA

Saturated Thickness: 22. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW05)

Initial Displacement: 14. ft
Total Well Penetration Depth: 22. ft
Casing Radius: 0.083 ft

Static Water Column Height: 22. ft
Screen Length: 4. ft
Well Radius: 0.25 ft

MW 9/5/06

Data Set: P:\7133\02\slug tests\MW05.aqt
Title: MW05 Slug Test
Date: 08/30/06
Time: 11:20:42

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego
Test Date: 3/29/06
Test Well: MW05

AQUIFER DATA

Saturated Thickness: 22. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW05

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 14. ft
Static Water Column Height: 22. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 22. ft

No. of Observations: 68

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	13.74	0.2888	0.115	1.211	0.
0.011	12.48	0.3087	-0.045	1.285	0.
0.022	10.54	0.3297	-0.151	1.364	0.
0.033	7.94	0.3518	-0.18	1.448	0.
0.044	5.388	0.3753	-0.142	1.536	0.
0.055	3.344	0.4002	-0.061	1.63	0.
0.066	1.751	0.4265	-0.016	1.73	0.
0.077	0.527	0.4545	0.061	1.835	-0.002
0.088	-0.363	0.4842	0.052	1.946	0.
0.099	-0.922	0.5155	0.011	2.064	0.
0.11	-1.227	0.5487	-0.02	2.19	0.
0.121	-1.321	0.5838	-0.025	2.322	0.

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.132	-1.254	0.6212	-0.009	2.463	0.
0.143	-1.073	0.6607	0.004	2.611	0.
0.154	-0.803	0.7025	0.004	2.769	0.
0.1657	-0.512	0.7468	-0.002	2.936	0.
0.1782	-0.203	0.7938	-0.002	3.113	0.
0.1913	0.081	0.8437	-0.005	3.3	0.
0.2053	0.309	0.8963	0.	3.498	0.
0.2202	0.448	0.9522	0.	3.708	0.002
0.2358	0.482	1.011	0.	3.931	0.
0.2525	0.421	1.074	0.	4.167	0.
0.2702	0.286	1.14	0.		

SOLUTION

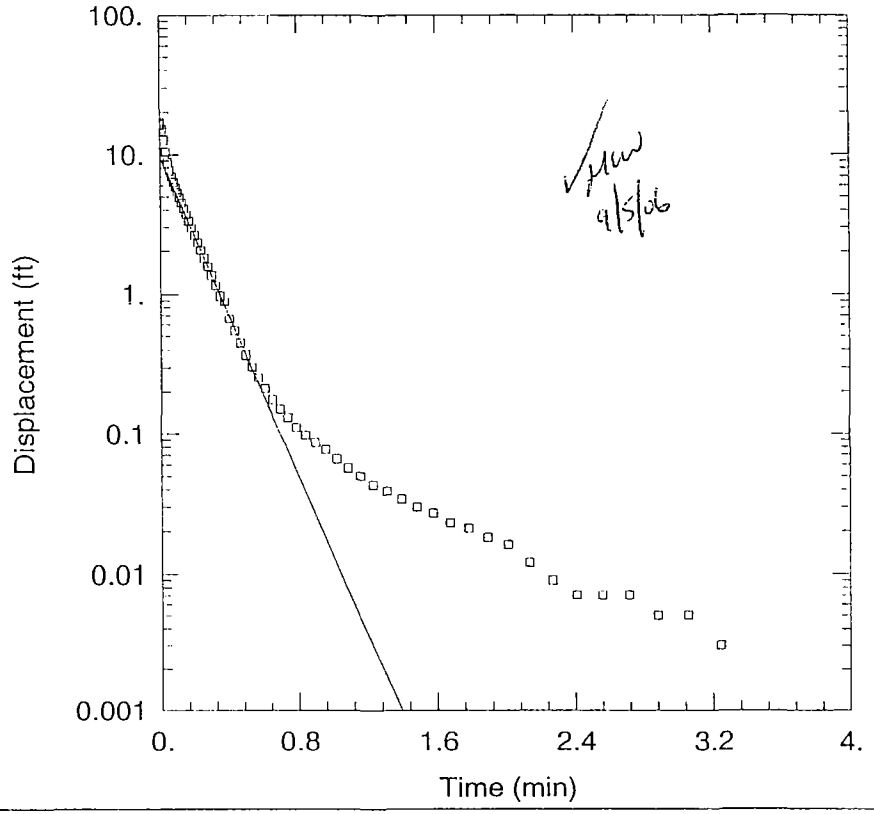
Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.2885

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.04246	cm/sec
Le	102.6	ft

T = T*b = 28.47 cm²/sec
Le = 102.6 ft
Solution is critically damped when C(D) = 1.



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW06.aqt
Date: 08/30/06 Time: 11:24:22

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW06
Test Date: 3/29/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.00583 cm/sec
y0 = 9.408 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW06)

Initial Displacement: 17. ft
Total Well Penetration Depth: 4. ft (fully penetrating)
Casing Radius: 0.083 ft

Static Water Column Height: 4. ft
Screen Length: 4. ft
Well Radius: 0.25 ft

Data Set: P:\7133\02\slug tests\MW06.aqt
Date: 08/30/06
Time: 11:24:31

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/29/06
Test Well: MW06

AQUIFER DATA

Saturated Thickness: 4. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW06

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 17. ft
Static Water Column Height: 4. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 4. ft

No. of Observations: 61

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	16.47	0.2968	1.341	1.23	0.043
0.011	15.26	0.3203	1.145	1.309	0.039
0.022	12.78	0.3452	0.969	1.393	0.034
0.033	10.41	0.3715	0.888	1.481	0.03
0.044	8.767	0.3995	0.663	1.575	0.027
0.055	7.665	0.4292	0.546	1.675	0.023
0.066	6.956	0.4605	0.447	1.78	0.021
0.077	6.389	0.4937	0.37	1.891	0.018
0.088	5.869	0.5288	0.305	2.01	0.016
0.099	5.363	0.5662	0.255	2.135	0.012
0.1107	4.929	0.6057	0.212	2.267	0.009
0.1232	4.503	0.6475	0.176	2.408	0.007
0.1363	4.089	0.6918	0.151	2.557	0.007

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1503	3.693	0.7388	0.131	2.714	0.007
0.1652	3.312	0.7887	0.111	2.881	0.005
0.1808	2.95	0.8413	0.097	3.058	0.005
0.1975	2.607	0.8972	0.086	3.245	0.003
0.2152	2.308	0.9563	0.077	3.443	0.
0.2338	2.044	1.019	0.066	3.654	0.
0.2537	1.792	1.085	0.057		
0.2747	1.557	1.156	0.05		

SOLUTION

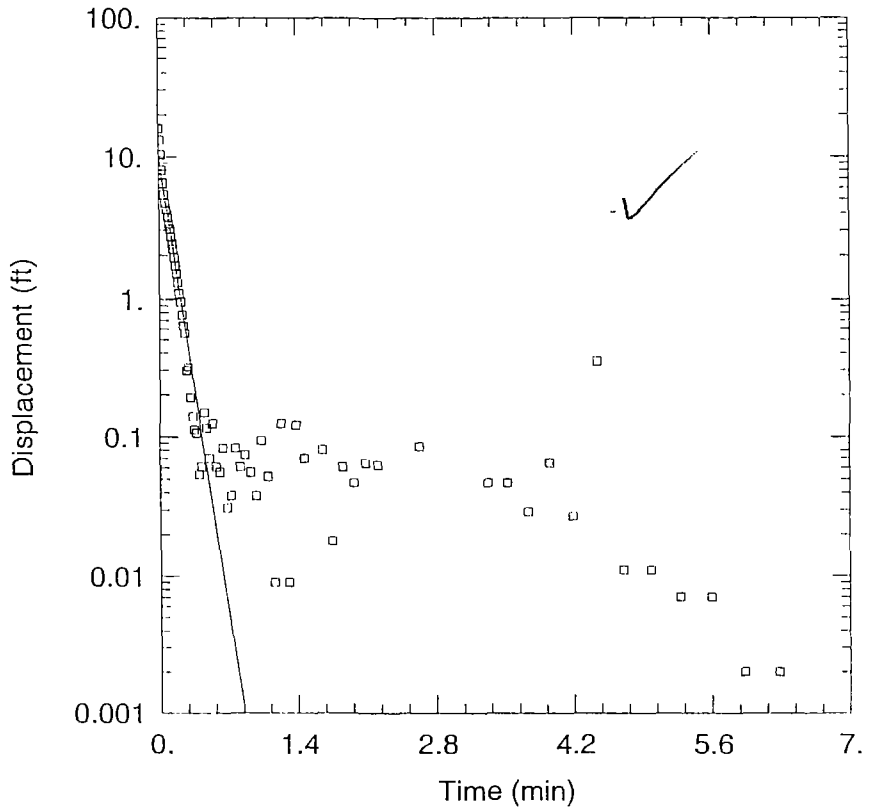
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.03

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.00583	cm/sec
y0	9.408	ft

$T = T^*b = 0.7108$ cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\02\slug tests\MW07.aqt
Date: 09/06/06 Time: 13:23:35

PROJECT INFORMATION

Company: RMT,Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Well: MW07
Test Date: 3/28/06

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.01134 cm/sec
y0 = 10.2 ft

AQUIFER DATA

Saturated Thickness: 3. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW07)

Initial Displacement: 16. ft
Total Well Penetration Depth: 3. ft
Casing Radius: 0.083 ft

Static Water Column Height: 3. ft
Screen Length: 3. ft
Well Radius: 0.25 ft

MW
9/7/06

Data Set: P:\7133\02\slug tests\MW07.aqt
Date: 09/06/06
Time: 13:23:41

PROJECT INFORMATION

Company: RMT,Inc.
Client: MSGRG
Project: 7133.02
Location: Muskego, WI
Test Date: 3/28/06
Test Well: MW07

AQUIFER DATA

Saturated Thickness: 3. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW07

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 16. ft
Static Water Column Height: 3. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 3. ft
Total Well Penetration Depth: 3. ft

No. of Observations: 71

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	15.76	0.2922	0.317	1.233	0.124
0.011	13.09	0.3108	0.191	1.307	0.009
0.022	10.32	0.3307	0.14	1.386	0.121
0.033	8.007	0.3517	0.112	1.47	0.07
0.044	6.458	0.3738	0.106	1.652	0.081
0.055	5.387	0.3973	0.054	1.752	0.018
0.066	4.651	0.4222	0.061	1.857	0.061
0.077	4.221	0.4485	0.149	1.968	0.047
0.088	3.679	0.4765	0.115	2.087	0.065
0.099	3.323	0.5062	0.07	2.212	0.063
0.11	3.049	0.5375	0.124	2.634	0.085
0.121	2.673	0.5707	0.061	3.322	0.047
0.132	2.401	0.6058	0.056	3.52	0.047

42

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.143	2.202	0.6432	0.083	3.731	0.029
0.154	1.91	0.6827	0.031	3.953	0.065
0.165	1.689	0.7245	0.038	4.189	0.027
0.176	1.491	0.7688	0.083	4.439	0.349
0.1877	1.286	0.8158	0.061	4.704	0.011
0.2002	1.083	0.8657	0.074	4.984	0.011
0.2133	0.955	0.9183	0.056	5.281	0.007
0.2273	0.77	0.9742	0.038	5.595	0.007
0.2422	0.635	1.033	0.094	5.928	0.002
0.2578	0.558	1.096	0.052	6.281	0.002
0.2745	0.299	1.162	0.009		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 1.793

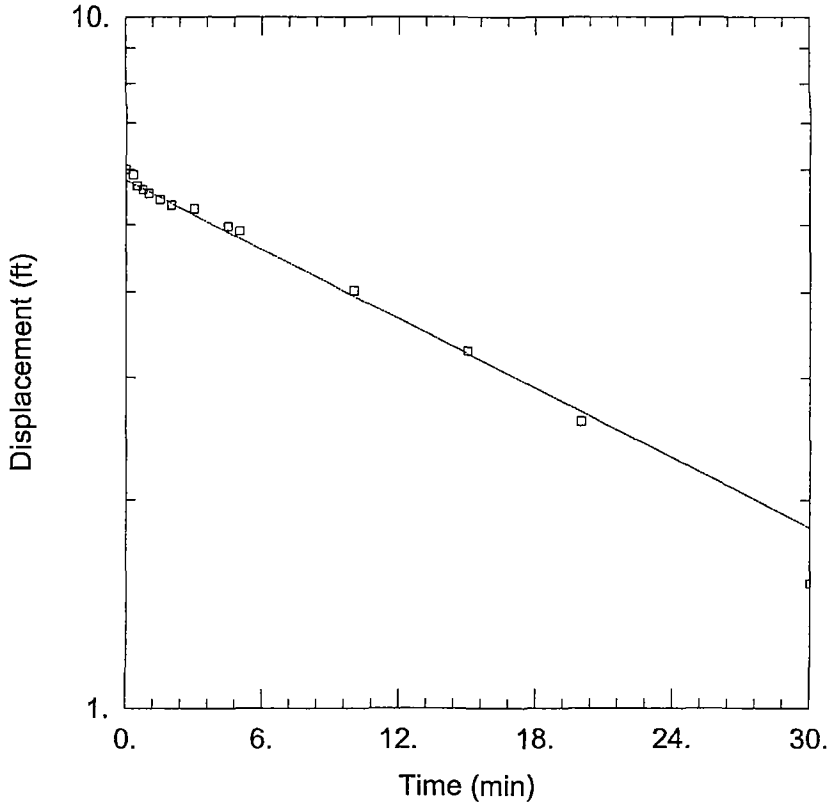
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.01134	cm/sec
y0	10.2	ft

T = T*b = 1.037 cm²/sec

43



WELL TEST ANALYSIS

Data Set: P:\...\MW07S.aqt
Date: 07/20/07 Time: 09:42:03

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW07S
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 1.563E-5 cm/sec
y0 = 5.781 ft

AQUIFER DATA

Saturated Thickness: 13. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW07S)

Initial Displacement: 6. ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft

Static Water Column Height: 13. ft
Screen Length: 13. ft
Well Radius: 0.25 ft

Data Set: P:\7133\03\Field Data\K Tests\MW07S.aqt
Date: 07/20/07
Time: 09:42:09

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW07S

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW07S

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 6. ft
Static Water Column Height: 13. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 13. ft

No. of Observations: 13

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.33	5.89	4.5	4.97
0.5	5.67	5.	4.89
0.75	5.6	10.	4.01
1.	5.53	15.	3.28
1.5	5.42	20.	2.6
2.	5.32	30.	1.52
3.	5.26		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.026

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.563E-5	cm/sec
y0	5.781	ft

T = T*b = 0.006194 cm²/sec

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	1.649E-5	5.373E-7	+/- 1.183E-6	30.69	cm/sec
y0	5.855	0.04628	+/- 0.1019	126.5	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

T = T*b = 0.006533 cm²/sec

Parameter Correlations

	K	y0
K	1.00	0.57
y0	0.57	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.1386 ft^2
Variance . . . . . 0.0126 ft^2

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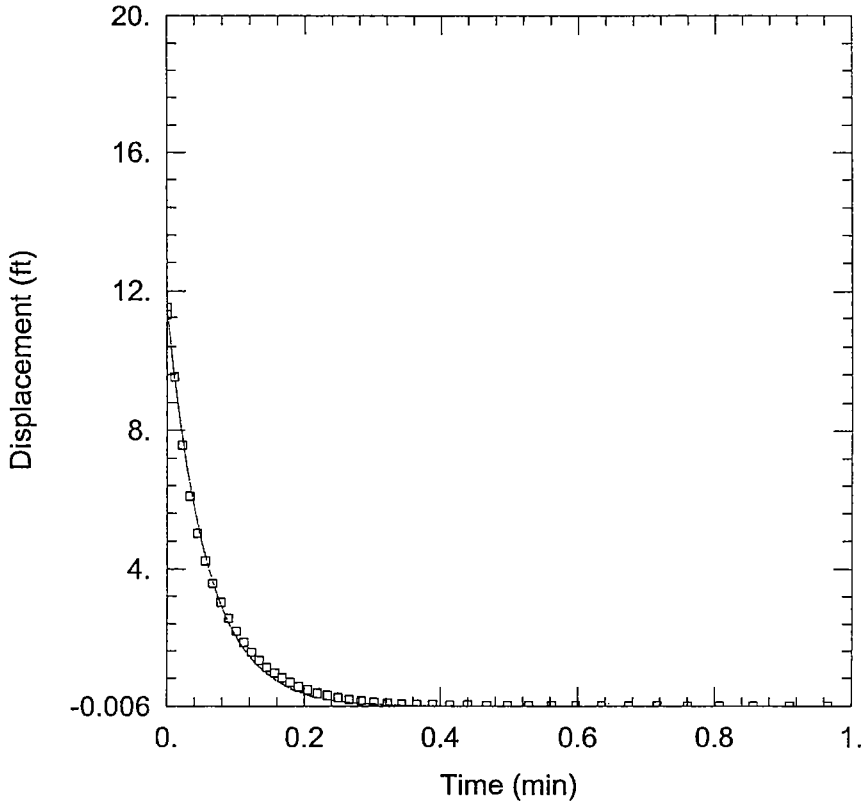
Std. Deviation . . . . . 0.1122 ft
Mean . . . . . -0.004247 ft
No. of Residuals 13
No. of Estimates 2



WELL TEST ANALYSIS

Data Set: P:\...\MW08A.aqt
Date: 07/20/07 Time: 09:31:01

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW08A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.02424 cm/sec
Le = 1. ft

AQUIFER DATA

Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW08A)

Initial Displacement: 11.5 ft
Total Well Penetration Depth: 9. ft
Casing Radius: 0.083 ft

Static Water Column Height: 9. ft
Screen Length: 4.5 ft
Well Radius: 0.25 ft

5f

Data Set: P:\7133\03\Field Data\K Tests\MW08A.aqt
Date: 07/20/07
Time: 09:30:02

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW08A

AQUIFER DATA

Saturated Thickness: 9. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW08A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 11.5 ft
Static Water Column Height: 9. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4.5 ft
Total Well Penetration Depth: 9. ft

No. of Observations: 68

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0001	11.29	0.5623	0.017
0.0113	9.521	0.5975	0.014
0.0225	7.562	0.6348	0.014
0.0336	6.09	0.6743	0.014
0.0448	5.022	0.7161	0.014
0.056	4.219	0.7605	0.009
0.0671	3.566	0.8075	0.009

8

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0783	3.023	0.8573	0.009
0.0895	2.561	0.91	0.006
0.1006	2.171	0.9658	0.006
0.1118	1.841	1.025	0.006
0.123	1.558	1.088	0.006
0.1341	1.318	1.154	0.003
0.1453	1.113	1.224	0.003
0.1565	0.939	1.299	0.003
0.1676	0.795	1.378	0.
0.1793	0.662	1.462	0.
0.1918	0.552	1.55	0.
0.205	0.46	1.644	0.003
0.219	0.376	1.743	0.003
0.2338	0.306	1.849	0.003
0.2495	0.246	1.96	0.
0.2661	0.196	2.078	-0.003
0.2838	0.156	2.203	-0.003
0.3025	0.124	2.336	-0.006
0.3223	0.098	2.476	-0.006
0.3433	0.075	2.625	0.
0.3655	0.061	2.783	0.003
0.389	0.049	2.949	0.
0.4138	0.037	3.116	0.
0.4401	0.04	3.283	0.
0.4681	0.023	3.449	0.
0.4978	0.023	3.616	0.
0.5291	0.02	3.783	0.

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.279

VISUAL ESTIMATION RESULTS

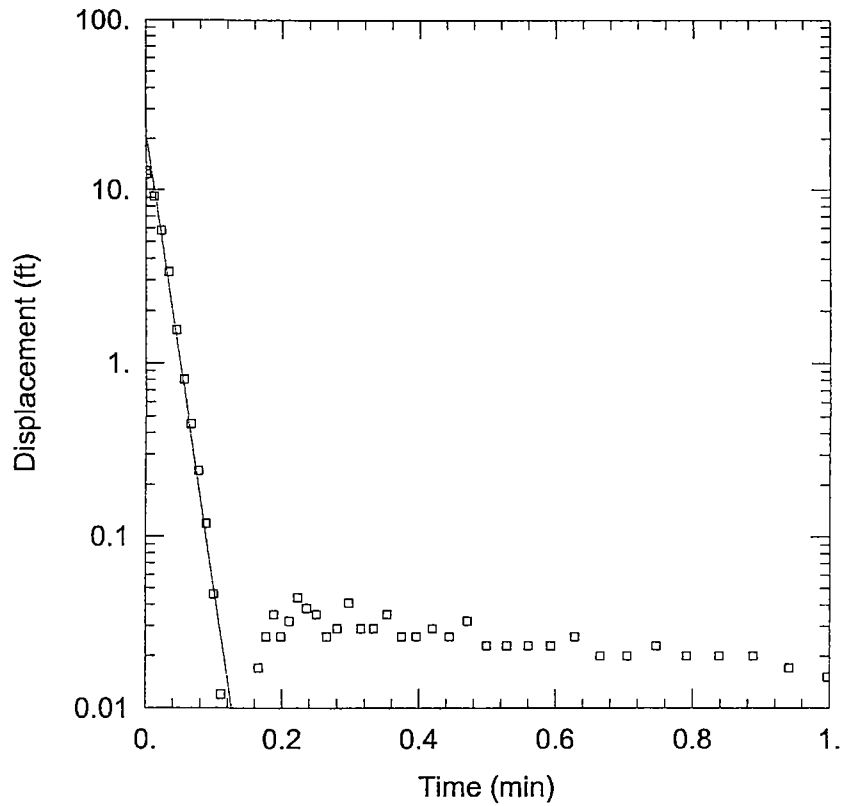
Estimated Parameters

Parameter	Estimate	
K	0.02424	cm/sec
Le	1.	ft

5

T = T*b = 6.649 cm²/sec
Le = 1. ft
Solution is critically damped when C(D) = 1.

52



WELL TEST ANALYSIS

Data Set: P:\...\MW09.aqt
Date: 07/20/07 Time: 09:36:38

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW09
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.04499 cm/sec
y0 = 21.54 ft

AQUIFER DATA

Saturated Thickness: 12. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW09)

Initial Displacement: 13. ft
Total Well Penetration Depth: 8. ft
Casing Radius: 0.083 ft

Static Water Column Height: 8. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

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Data Set: P:\7133\03\Field Data\K Tests\MW09.aqt
Date: 07/20/07
Time: 09:36:46

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW09

AQUIFER DATA

Saturated Thickness: 12. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW09

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13. ft
Static Water Column Height: 8. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 8. ft

No. of Observations: 65

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.001	12.45	0.4715	0.032
0.012	9.148	0.4995	0.023
0.023	5.811	0.5292	0.023
0.034	3.343	0.5605	0.023
0.045	1.552	0.5937	0.023
0.056	0.804	0.6288	0.026
0.067	0.451	0.6662	0.02

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.078	0.24	0.7057	0.02
0.089	0.119	0.7475	0.023
0.1	0.046	0.7918	0.02
0.111	0.012	0.8388	0.02
0.122	-0.003	0.8887	0.02
0.133	-0.006	0.9413	0.017
0.144	0.	0.9972	0.015
0.155	0.003	1.056	0.012
0.166	0.017	1.119	0.012
0.177	0.026	1.185	0.015
0.188	0.035	1.256	0.009
0.199	0.026	1.33	0.012
0.2107	0.032	1.409	0.009
0.2232	0.044	1.493	0.012
0.2363	0.038	1.581	0.012
0.2503	0.035	1.675	0.009
0.2652	0.026	1.775	0.012
0.2808	0.029	1.88	0.009
0.2975	0.041	1.991	0.009
0.3152	0.029	2.11	0.009
0.3338	0.029	2.235	0.006
0.3537	0.035	2.367	0.006
0.3747	0.026	2.508	0.006
0.3968	0.026	2.656	0.006
0.4203	0.029	2.814	0.
0.4452	0.026		

SOLUTION

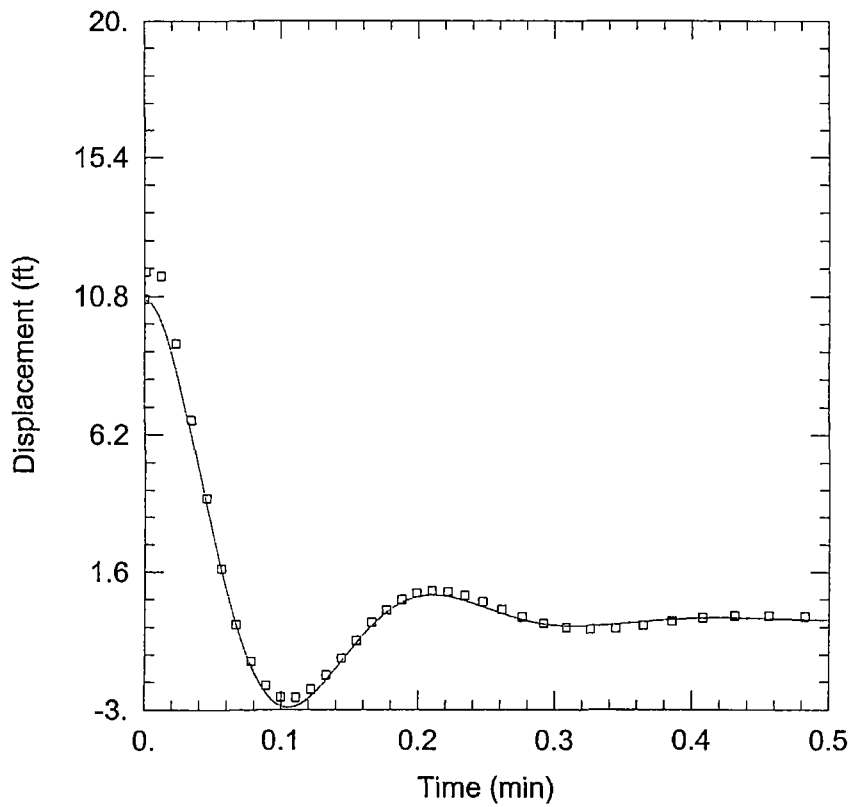
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.12

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.04499	cm/sec
y0	21.54	ft

T = T*b = 16.45 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\...\MW10.aqt
Date: 07/20/07 Time: 09:39:15

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW10
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.04442 cm/sec
Le = 111. ft

AQUIFER DATA

Saturated Thickness: 31.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW10)

Initial Displacement: 10.7 ft
Total Well Penetration Depth: 17.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 17.5 ft
Screen Length: 5. ft
Well Radius: 0.25 ft

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Data Set: P:\7133\03\Field Data\K Tests\MW10.aqt
Date: 07/20/07
Time: 09:39:22

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW10

AQUIFER DATA

Saturated Thickness: 31.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW10

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 10.7 ft
Static Water Column Height: 17.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 17.5 ft

No. of Observations: 61

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.001	11.59	0.4078	0.058
0.012	11.45	0.4313	0.118
0.023	9.213	0.4562	0.118
0.034	6.674	0.4825	0.104
0.045	4.073	0.5105	0.006
0.056	1.708	0.5402	-0.032
0.067	-0.162	0.5715	-0.029

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Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.078	-1.388	0.6047	-0.009
0.089	-2.209	0.6398	0.014
0.1	-2.591	0.6772	0.02
0.111	-2.597	0.7167	0.011
0.122	-2.328	0.7585	0.
0.133	-1.868	0.8028	0.
0.144	-1.298	0.8498	0.
0.155	-0.705	0.8997	0.003
0.166	-0.09	0.9523	0.014
0.177	0.309	1.008	0.
0.188	0.659	1.067	0.009
0.199	0.87	1.13	0.014
0.21	0.951	1.196	0.003
0.2217	0.916	1.267	0.
0.2342	0.783	1.341	0.003
0.2473	0.578	1.42	0.003
0.2613	0.329	1.504	0.003
0.2762	0.084	1.592	0.
0.2918	-0.124	1.686	0.
0.3085	-0.266	1.786	0.
0.3262	-0.315	1.891	-0.003
0.3448	-0.281	2.002	0.
0.3647	-0.179	2.12	0.
0.3857	-0.052		

SOLUTION

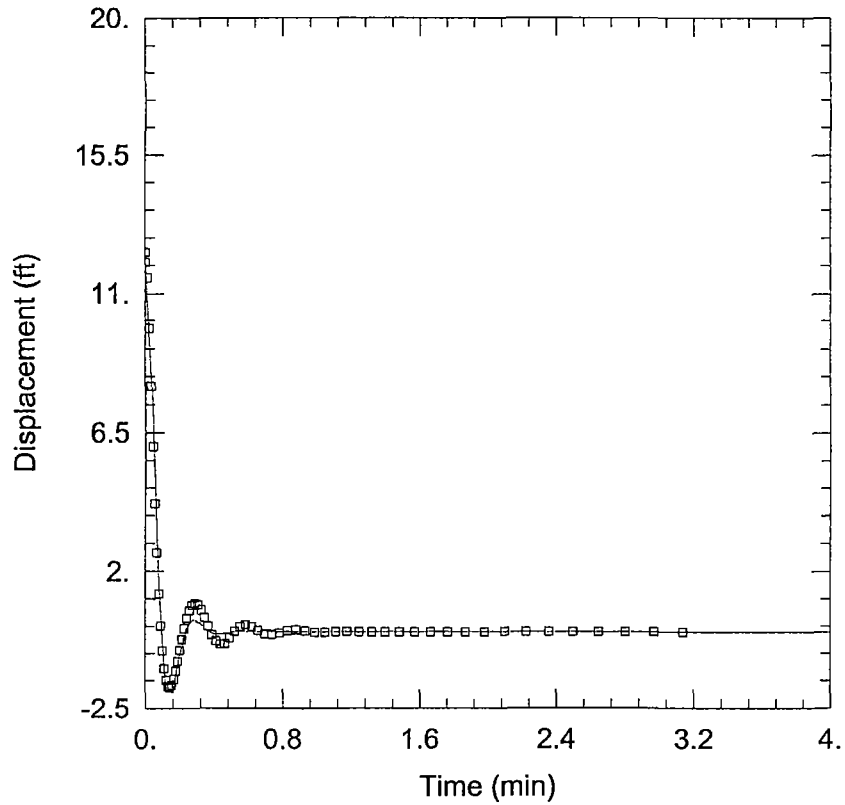
Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.3335

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.04442	cm/sec
Le	111.	ft

T = T*b = 42.65 cm²/sec
Le = 111. ft
Solution is critically damped when C(D) = 1.



WELL TEST ANALYSIS

Data Set: P:\...\MW10A.aqt
Date: 07/20/07 Time: 09:41:18

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW10A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 0.03484 cm/sec
Le = 178.7 ft

AQUIFER DATA

Saturated Thickness: 14. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW10A)

Initial Displacement: 12. ft
Total Well Penetration Depth: 14. ft
Casing Radius: 0.083 ft

Static Water Column Height: 14. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

Data Set: P:\7133\03\Field Data\K Tests\MW10A.aqt
Date: 07/20/07
Time: 09:41:24

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW10A

AQUIFER DATA

Saturated Thickness: 14. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW10A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 12. ft
Static Water Column Height: 14. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 14. ft

No. of Observations: 66

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0001	12.33	0.4904	-0.191
0.0113	11.49	0.5201	0.014
0.0224	9.851	0.5514	0.176
0.0336	7.972	0.5846	0.237
0.0448	6.043	0.6198	0.173
0.0559	4.189	0.6571	0.049
0.0671	2.591	0.6966	-0.061

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0783	1.252	0.7384	-0.087
0.0894	0.205	0.7828	-0.038
0.1006	-0.616	0.8298	0.034
0.1118	-1.218	0.8796	0.061
0.1229	-1.597	0.9323	0.026
0.1341	-1.797	0.9881	-0.015
0.1453	-1.837	1.047	-0.015
0.1564	-1.751	1.11	0.008
0.1676	-1.562	1.176	0.017
0.1788	-1.296	1.247	0.008
0.1899	-0.978	1.321	-0.006
0.2016	-0.608	1.4	0.
0.2141	-0.243	1.484	-0.003
0.2273	0.118	1.572	-0.006
0.2413	0.442	1.666	-0.009
0.2561	0.705	1.765	0.
0.2718	0.876	1.871	-0.006
0.2884	0.94	1.982	-0.003
0.3061	0.882	2.1	0.008
0.3248	0.723	2.226	0.008
0.3446	0.471	2.358	0.008
0.3656	0.185	2.499	0.006
0.3878	-0.093	2.647	0.006
0.4113	-0.295	2.805	0.006
0.4361	-0.391	2.972	0.006
0.4624	-0.385	3.138	0.

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.271

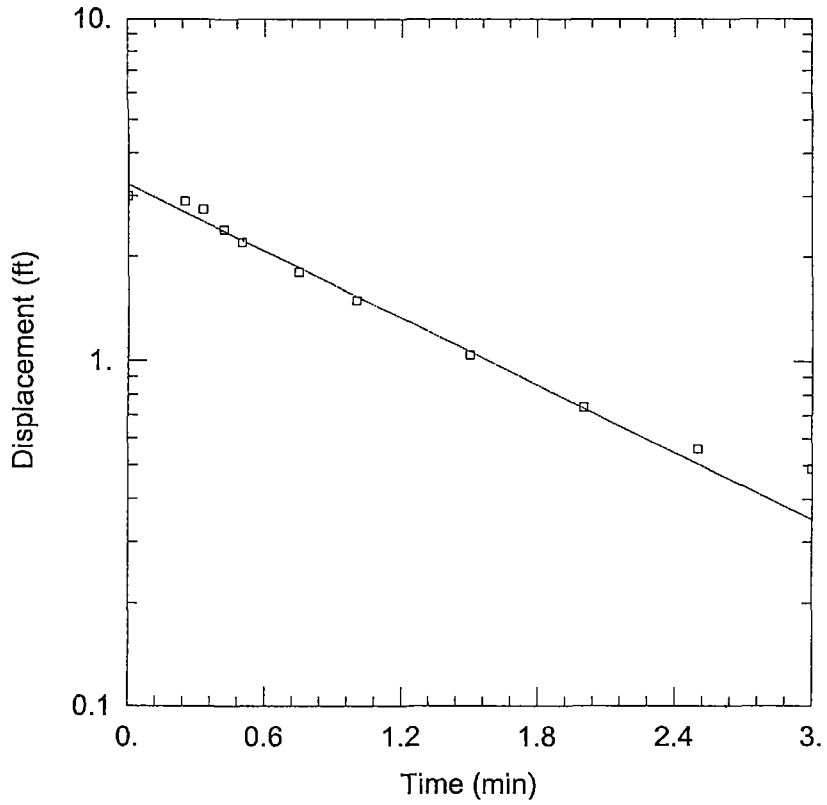
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.03484	cm/sec
Le	178.7	ft

T = T*b = 14.87 cm²/sec

Le = 178.7 ft
Solution is critically damped when C(D) = 1.



WELL TEST ANALYSIS

Data Set: P:\...\MW11A.aqt
Date: 07/20/07 Time: 09:41:42

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW11A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.0005797 cm/sec
y0 = 3.242 ft

AQUIFER DATA

Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW11A)

Initial Displacement: 3. ft
Total Well Penetration Depth: 8. ft
Casing Radius: 0.083 ft

Static Water Column Height: 8. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

Data Set: P:\7133\03\Field Data\K Tests\MW11A.aqt
Date: 07/20/07
Time: 09:41:47

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW11A

AQUIFER DATA

Saturated Thickness: 9. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW11A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3. ft
Static Water Column Height: 8. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 8. ft

No. of Observations: 10

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.25	2.9	1.	1.5
0.33	2.75	1.5	1.04
0.42	2.4	2.	0.74
0.5	2.2	2.5	0.56
0.75	1.8	3.	0.49

SOLUTION

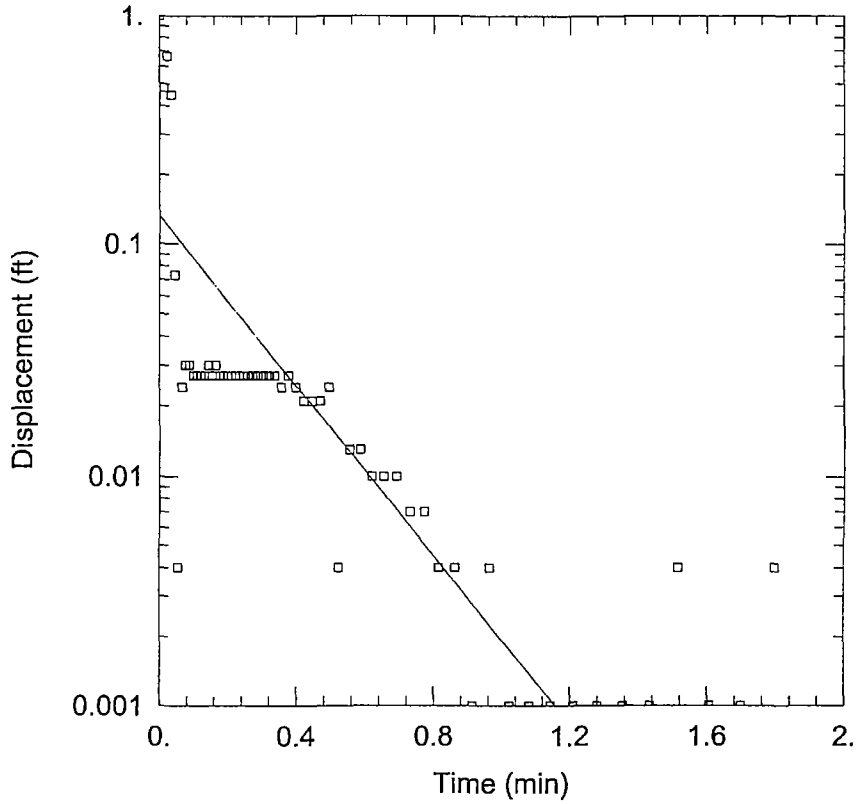
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.231

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0005797	cm/sec
y0	3.242	ft

T = T*b = 0.159 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\03\Field Data\K Tests\MW13S.aqt
Date: 07/20/07 Time: 10:01:33

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW13S
Test Date: 5/16/07

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.005681 cm/sec
y0 = 0.1317 ft

AQUIFER DATA

Saturated Thickness: 172.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW13S)

Initial Displacement: 1. ft
Total Well Penetration Depth: 8.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 8.5 ft
Screen Length: 8.5 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.25

Data Set: P:\7133\03\Field Data\K Tests\MW13S.aqt
Date: 07/20/07
Time: 10:01:40

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW13S

AQUIFER DATA

Saturated Thickness: 172.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW13S

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1. ft
Static Water Column Height: 8.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 8.5 ft
Total Well Penetration Depth: 8.5 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.1442 ft
Gravel Pack Porosity: 0.25

No. of Observations: 58

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0112	0.483	0.235	0.027	0.6905	0.01
0.0223	0.662	0.2475	0.027	0.73	0.007
0.0335	0.446	0.2607	0.027	0.7718	0.007
0.0447	0.073	0.2747	0.027	0.8162	0.004
0.0558	0.004	0.2895	0.027	0.8632	0.004
0.067	0.024	0.3052	0.027	0.913	0.001
0.0782	0.03	0.3218	0.027	0.9657	0.004
0.0893	0.03	0.3395	0.027	1.022	0.001

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1005	0.027	0.3582	0.024	1.081	0.001
0.1117	0.027	0.378	0.027	1.143	0.001
0.1228	0.027	0.399	0.024	1.21	0.001
0.134	0.027	0.4212	0.021	1.28	0.001
0.1452	0.03	0.4447	0.021	1.355	0.001
0.1563	0.027	0.4695	0.021	1.434	0.001
0.1675	0.03	0.4958	0.024	1.517	0.004
0.1787	0.027	0.5238	0.004	1.606	0.001
0.1898	0.027	0.5535	0.013	1.7	0.001
0.201	0.027	0.5848	0.013	1.799	0.004
0.2122	0.027	0.618	0.01		
0.2233	0.027	0.6532	0.01		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.168

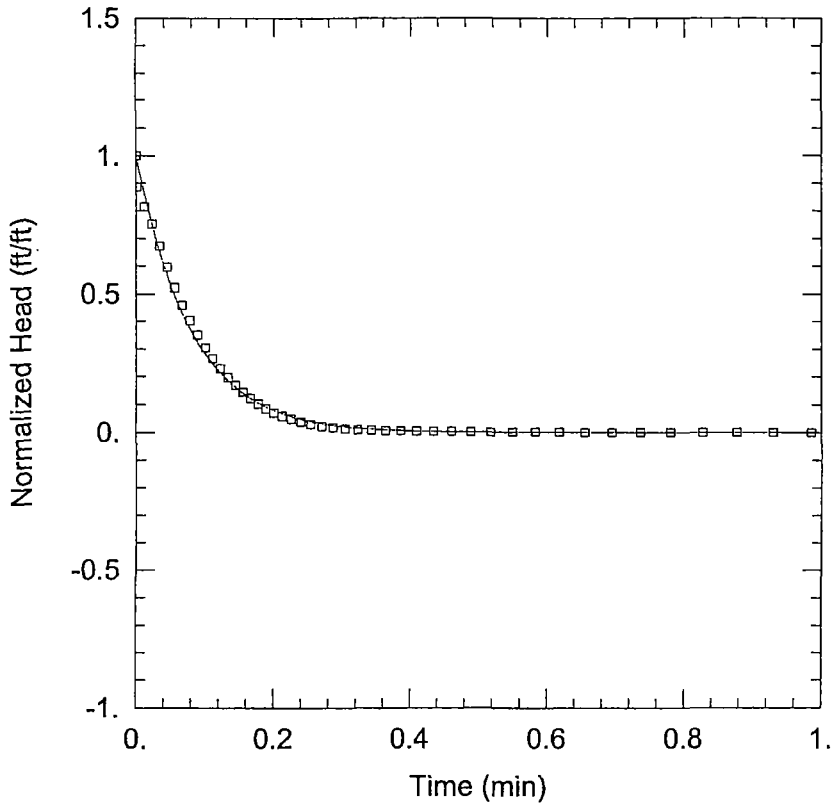
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.005681	cm/sec
y0	0.1317	ft

T = T*b = 29.87 cm²/sec

17



WELL TEST ANALYSIS

Data Set: P:\7133\03\Field Data\K Tests\MW13A.aqt
Date: 07/20/07 Time: 10:18:22

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW13A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 0.02098 cm/sec
Le = 1. ft

AQUIFER DATA

Saturated Thickness: 172.6 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW13A)

Initial Displacement: 12. ft
Total Well Penetration Depth: 172.6 ft
Casing Radius: 0.083 ft

Static Water Column Height: 172.6 ft
Screen Length: 4. ft
Well Radius: 0.25 ft

25

Data Set: P:\7133\03\Field Data\K Tests\MW13A.aqt
Date: 07/20/07
Time: 10:18:32

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW13A

AQUIFER DATA

Saturated Thickness: 172.6 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW13A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 12. ft
Static Water Column Height: 172.6 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 172.6 ft

No. of Observations: 60

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.001	10.63	0.2253	0.576	0.7365	0.009
0.012	9.761	0.2393	0.457	0.7808	0.006
0.023	9.014	0.2542	0.362	0.8278	0.006
0.034	8.077	0.2698	0.278	0.8777	0.006
0.045	7.134	0.2865	0.214	0.9303	0.009
0.056	6.277	0.3042	0.165	0.9862	0.009
0.067	5.509	0.3228	0.128	1.045	0.006
0.078	4.828	0.3427	0.099	1.108	0.006
0.089	4.21	0.3637	0.079	1.174	0.006
0.1	3.658	0.3858	0.067	1.245	0.006

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.111	3.176	0.4093	0.055	1.319	0.006
0.122	2.737	0.4342	0.044	1.398	0.
0.133	2.358	0.4605	0.05	1.482	0.003
0.144	2.02	0.4885	0.027	1.57	0.
0.155	1.723	0.5182	0.024	1.664	0.
0.166	1.46	0.5495	0.021	1.764	-0.002
0.177	1.235	0.5827	0.018	1.869	-0.002
0.188	1.024	0.6178	0.015	1.98	-0.002
0.1997	0.85	0.6552	0.012	2.099	-0.002
0.2122	0.709	0.6947	0.009	2.224	0.

SOLUTION

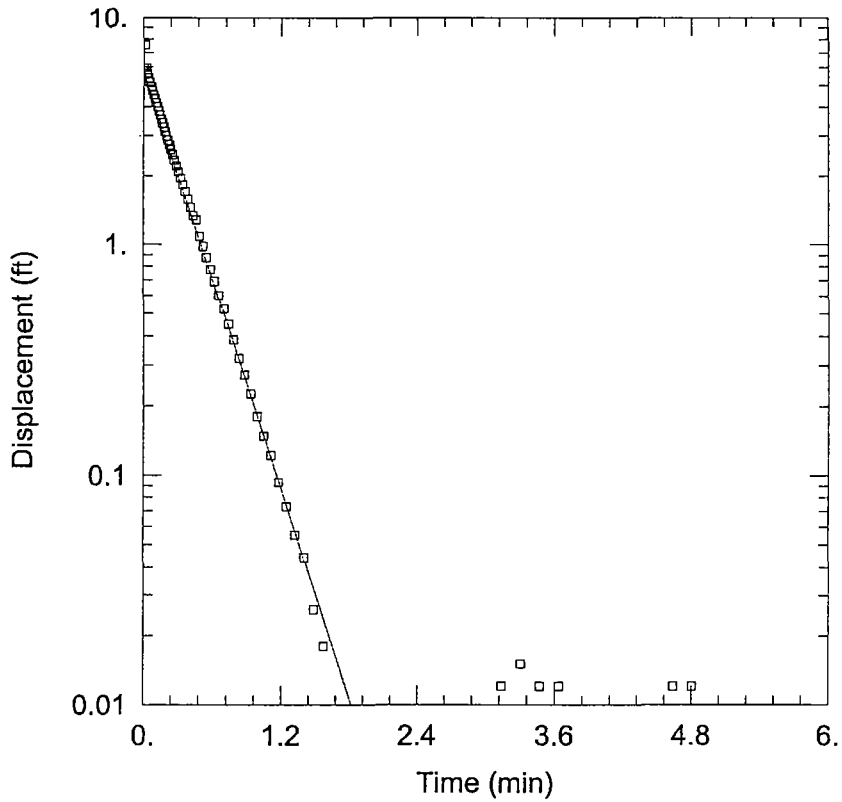
Slug Test
Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
ln(Re/rw): 3.787

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.02098	cm/sec
Le	1.	ft

T = T*b = 110.4 cm²/sec
Le = 1. ft
Solution is critically damped when C(D) = 1.



WELL TEST ANALYSIS

Data Set: P:\...\MW14A.aqt
Date: 07/20/07 Time: 09:50:28

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW14A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.003772 cm/sec
y0 = 5.737 ft

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW14A)

Initial Displacement: 12. ft
Total Well Penetration Depth: 24. ft
Casing Radius: 0.083 ft

Static Water Column Height: 24. ft
Screen Length: 5. ft
Well Radius: 0.25 ft

Data Set: P:\7133\03\Field Data\K Tests\MW14A.aqt
Date: 07/20/07
Time: 09:50:33

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW14A

AQUIFER DATA

Saturated Thickness: 24. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW14A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 12. ft
Static Water Column Height: 24. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 24. ft

No. of Observations: 81

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0001	5.963	0.7828	0.385
0.0113	7.556	0.8298	0.321
0.0224	5.966	0.8796	0.272
0.0336	5.637	0.9323	0.226
0.0448	5.374	0.9881	0.18
0.0559	5.137	1.047	0.148
0.0671	4.921	1.11	0.122

2

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0783	4.716	1.176	0.093
0.0894	4.522	1.247	0.073
0.1006	4.34	1.321	0.055
0.1118	4.161	1.4	0.044
0.1229	3.994	1.484	0.026
0.1341	3.835	1.572	0.018
0.1453	3.682	1.666	0.009
0.1564	3.529	1.765	0.006
0.1676	3.384	1.871	0.006
0.1788	3.254	1.982	0.006
0.1899	3.119	2.1	0.006
0.2016	2.986	2.226	0.006
0.2141	2.862	2.358	0.003
0.2273	2.732	2.499	0.006
0.2413	2.604	2.647	0.003
0.2561	2.474	2.805	0.009
0.2718	2.344	2.972	0.009
0.2884	2.214	3.138	0.012
0.3061	2.081	3.305	0.015
0.3248	1.951	3.472	0.012
0.3446	1.821	3.638	0.012
0.3656	1.697	3.805	0.009
0.3878	1.573	3.972	0.009
0.4113	1.449	4.138	0.009
0.4361	1.33	4.305	0.009
0.4624	1.272	4.472	0.009
0.4904	1.082	4.638	0.012
0.5201	0.978	4.805	0.012
0.5514	0.876	4.972	0.006
0.5846	0.775	5.138	0.
0.6198	0.688	5.305	0.003
0.6571	0.599	5.472	0.003
0.6966	0.524	5.638	0.
0.7384	0.449		

SOLUTION

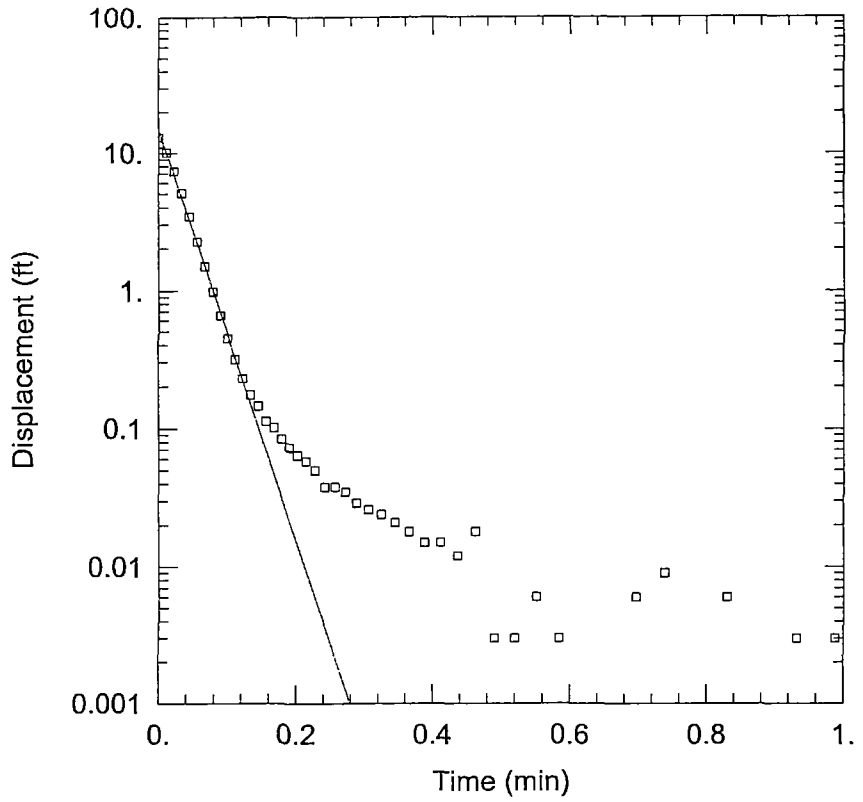
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.086

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.003772	cm/sec
y0	5.737	ft

T = T*b = 2.759 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\03\Field Data\K Tests\MW15A.aqt
Date: 07/20/07 Time: 10:25:53

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW15A
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.03058 cm/sec
y0 = 14.92 ft

AQUIFER DATA

Saturated Thickness: 111.7 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW15A)

Initial Displacement: 13. ft
Total Well Penetration Depth: 64.7 ft
Casing Radius: 0.083 ft

Static Water Column Height: 64.7 ft
Screen Length: 5. ft
Well Radius: 0.25 ft

18

Data Set: P:\7133\03\Field Data\K Tests\MW15A.aqt
Date: 07/20/07
Time: 10:25:59

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW15A

AQUIFER DATA

Saturated Thickness: 111.7 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW15A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13. ft
Static Water Column Height: 64.7 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 64.7 ft

No. of Observations: 67

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0001	11.66	0.2718	0.035	1.047	0.
0.0113	10.07	0.2884	0.029	1.11	0.003
0.0224	7.339	0.3061	0.026	1.176	0.
0.0336	5.08	0.3248	0.024	1.247	0.
0.0448	3.415	0.3446	0.021	1.321	0.003
0.0559	2.228	0.3656	0.018	1.4	0.
0.0671	1.477	0.3878	0.015	1.484	0.
0.0783	0.98	0.4113	0.015	1.572	0.
0.0894	0.651	0.4361	0.012	1.666	0.
0.1006	0.445	0.4624	0.018	1.765	0.009

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1118	0.312	0.4904	0.003	1.871	0.
0.1229	0.229	0.5201	0.003	1.982	0.
0.1341	0.174	0.5514	0.006	2.1	0.003
0.1453	0.145	0.5846	0.003	2.226	0.003
0.1564	0.113	0.6198	0.	2.358	0.006
0.1676	0.102	0.6571	-0.002	2.499	0.003
0.1788	0.084	0.6966	0.006	2.647	0.003
0.1899	0.073	0.7384	0.009	2.805	0.003
0.2016	0.064	0.7828	0.	2.972	0.003
0.2141	0.058	0.8298	0.006	3.138	0.
0.2273	0.05	0.8796	0.	3.305	0.
0.2413	0.038	0.9323	0.003		
0.2561	0.038	0.9881	0.003		

SOLUTION

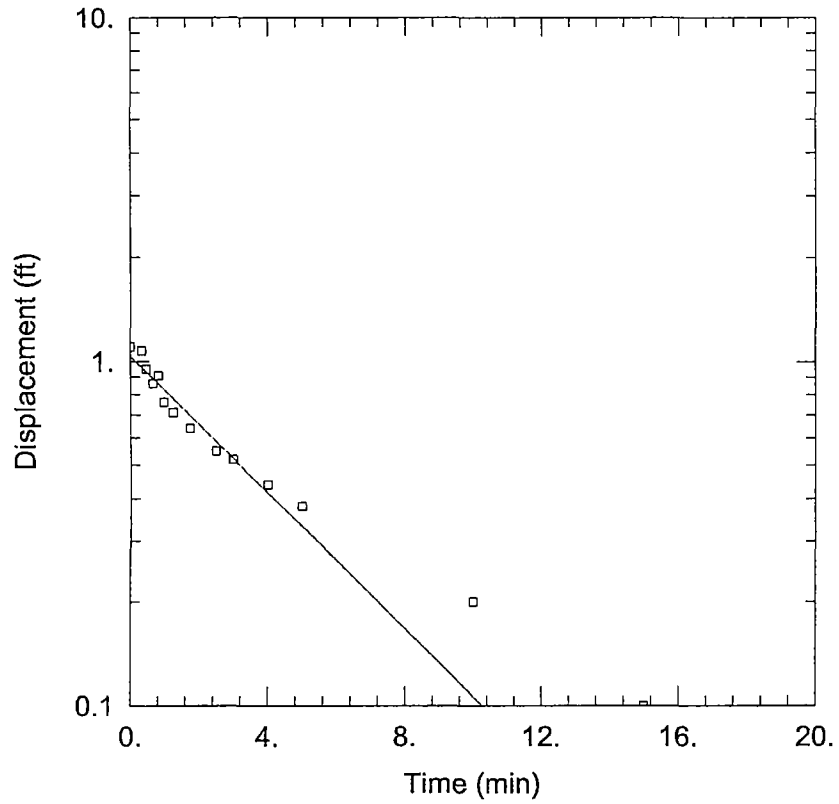
Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.54

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.03058	cm/sec
y0	14.92	ft

T = T*b = 104.1 cm²/sec



WELL TEST ANALYSIS

Data Set: P:\7133\03\Field Data\K Tests\MW17.aqt
Date: 07/20/07 Time: 09:56:53

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Well: MW17
Test Date: 5/16/07

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 0.0002075 cm/sec
y0 = 1.034 ft

AQUIFER DATA

Saturated Thickness: 6.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW17)

Initial Displacement: 1.1 ft
Total Well Penetration Depth: 6.5 ft
Casing Radius: 0.083 ft

Static Water Column Height: 6.5 ft
Screen Length: 4.5 ft
Well Radius: 0.25 ft

89

Data Set: P:\7133\03\Field Data\K Tests\MW17.aqt
Date: 07/20/07
Time: 09:57:00

PROJECT INFORMATION

Company: RMT, Inc.
Client: MSGRG
Project: 7133.03
Location: Muskego, WI
Test Date: 5/16/07
Test Well: MW17

AQUIFER DATA

Saturated Thickness: 6.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW17

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.1 ft
Static Water Column Height: 6.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4.5 ft
Total Well Penetration Depth: 6.5 ft

No. of Observations: 13

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.33	1.07	1.25	0.71	5.	0.38
0.47	0.95	1.75	0.64	10.	0.2
0.65	0.86	2.5	0.55	15.	0.1
0.82	0.91	3.	0.52		
0.97	0.76	4.	0.44		

SOLUTION

Slug Test
Aquifer Model: Confined

Solution Method: Bouwer-Rice
ln(Re/rw): 2.345

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0002075	cm/sec
y0	1.034	ft

T = T*b = 0.04111 cm²/sec

18

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Appendix I
Laboratory Data Validation and Verification Reports

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

RMT, Inc.
744 Heartland Trail
Madison, WI 53717
ATTN: Mr. Greg Graf

September 1, 2006

SUBJECT: Muskego OLF, Data Validation

Dear Mr. Graf,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 21, 2006. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 15391:

SDG #	Fraction
6096	Metals, Wet Chemistry

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI, September 2005
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\RMT\15391COV.wpd

1/304

Attachment 1

10% Level IV only

LDC #15391 (RMT, Inc. / Muskego OLF)

LDC	SDG#	DATE REC'D	(3) DATE DUE	Metals (SW846)		NH_3 (350.1)		Cl & SO_4 (300.0)		NO_3 (353.2)		CN (9012)		Alk. (310.2)		TKN (351.2)		TOC (415.1)													
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	6096	08/21/06	09/11/06	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0												
Total	L/LR			3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	24

N

ed cells indicate Level IV validation (all other cells are Level II validation). These sample count t include MS/MSD, and DUPs

Muskego OLF
Data Validation Reports
LDC# 15391

Wet Chemistry

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: May 31, 2006

LDC Report Date: August 30, 2006

Matrix: Water

Parameters: Wet Chemistry

Validation Level: EPA Level IV

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): 6096

Sample Identification

E135B
E137B
P64C

5

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride and Sulfate, EPA Method 310.2 for Alkalinity, EPA Method 350.1 for Ammonia, EPA Method 353.2 for Nitrate, EPA Method 351.2 for Total Kjeldahl Nitrogen, EPA Method 415.1 for Total Organic Carbon, and EPA SW 846 Method 9012 for Cyanide.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
6/6/06	ICV	Cyanide	76 (90-110)	E135B E137B P64C	J (all detects) UJ (all non-detects)	P

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Concentration	Associated Samples
MB	Cyanide	0.0076 mg/L	All samples in SDG 6096

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
E135B	Cyanide	0.0076 mg/L	0.0076U mg/L
E137B	Cyanide	0.0076 mg/L	0.0076U mg/L

7

Sample	Analyte	Reported Concentration	Modified Final Concentration
P64C	Cyanide	0.0076 mg/L	0.0076U mg/L

Sample FB-01 was identified as a field blank. No contaminant concentrations were found in this blank with the following exceptions:

Field Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FB-01	5/31/06	Chloride Cyanide	0.22 mg/L 0.0076 mg/L	All samples in SDG 6096

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
E135B	Cyanide	0.0076 mg/L	0.0076U mg/L
E137B	Cyanide	0.0076 mg/L	0.0076U mg/L
P64C	Cyanide	0.0076 mg/L	0.0076U mg/L

IV. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) analyses specified for the samples in this SDG, and therefore matrix spike analyses were not performed for this SDG.

V. Duplicates

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Wet Chemistry - Data Qualification Summary - SDG 6096

SDG	Sample	Analyte	Flag	A or P	Reason
6096	E135B E137B P64C	Cyanide	J (all detects) UJ (all non-detects)	P	Calibration (ICV %R)

Muskego OLF
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 6096

SDG	Sample	Analyte	Modified Final Concentration	A or P
6096	E135B	Cyanide	0.0076U mg/L	A
6096	E137B	Cyanide	0.0076U mg/L	A
6096	P64C	Cyanide	0.0076U mg/L	A

Muskego OLF
Wet Chemistry - Field Blank Data Qualification Summary - SDG 6096

SDG	Sample	Analyte	Modified Final Concentration	A or P
6096	E135B	Cyanide	0.0076U mg/L	A
6096	E137B	Cyanide	0.0076U mg/L	A
6096	P64C	Cyanide	0.0076U mg/L	A

40/3340

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

E135B

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.: 6096

Matrix (soil/water): WATER Lab Sample ID: A6615103

% Solids: 0.0 Date Samp/Recv: 05/31/2006 06/01/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.61				350.1	06/02/2006
Chloride	MG/L	40.9				300.0	06/06/2006
Cyanide	MG/L	0.0076		J UJ		9012	06/06/2006
Nitrate	MG/L-N	0.050	U			353.2	06/01/2006
Sulfate	MG/L	41.8				300.0	06/04/2006
Total Alkalinity	MG/L	244				310.2	06/07/2006
Total Kjeldahl Nitrogen	MG/L-N	1.0	U			351.2	06/09/2006
Total Organic Carbon	MG/L	1.6				415.1	06/02/2006

Comments:

jm 083106

11

42/3340

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

E137B

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.: 6096

Matrix (soil/water): WATER Lab Sample ID: A6615106

% Solids: 0.0 Date Samp/Recv: 05/31/2006 06/01/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	24.3				350.1	06/02/2006
Chloride	MG/L	163				300.0	06/06/2006
Cyanide	MG/L	0.0076		J UJ		9012	06/06/2006
Nitrate	MG/L-N	0.050	U			353.2	06/01/2006
Sulfate	MG/L	5.4				300.0	06/04/2006
Total Alkalinity	MG/L	570				310.2	06/07/2006
Total Kjeldahl Nitrogen	MG/L-N	10				351.2	06/09/2006
Total Organic Carbon	MG/L	6.6				415.1	06/02/2006

Comments:

Lu08306

12

56/3340

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: P64C

Lab Name: STL Buffalo Contract: MASTER

Lab Code: REKNY Case No.: F SAS No.: SDG No.: 6096

Matrix (soil/water): WATER Lab Sample ID: A6615105

% Solids: 0.0 Date Samp/Recv: 05/31/2006 06/01/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.20				350.1	06/02/2006
Chloride	MG/L	86.4				300.0	06/06/2006
Cyanide	MG/L	0.0076		J UJ		9012	06/06/2006
Nitrate	MG/L-N	0.050	U			353.2	06/01/2006
Sulfate	MG/L	54.7				300.0	06/04/2006
Total Alkalinity	MG/L	476				310.2	06/07/2006
Total Kjeldahl Nitrogen	MG/L-N	1.0	U			351.2	06/09/2006
Total Organic Carbon	MG/L	1.0		J		415.1	06/02/2006

Comments:

H4083106

13

LDC #: 15391A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/29/06
SDG #: 6096 Level IV Page: 1 of 1
Laboratory: Severn Trent Laboratotries. Reviewer: MM
2nd Reviewer: AC

METHOD: (Analyte) Chloride and Sulfate (EPA Method 300.0), Alkalinity (EPA Method 310.2), Ammonia (EPA Method 350.1), Nitrate (EPA Method 353.2), Total Kjeldahl Nitrogen (EPA Method 351.2), Total Organic Carbon (EPA Method 415.1), and Cyanide (EPA SW 846 Method 9012)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5/31/06
IIa.	Initial calibration	A	
IIb.	Calibration verification	SW	
III.	Blanks	SW	
IV	Matrix Spike/Matrix Spike Duplicates	N	3 client specified.
V	Duplicates	N	
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	SW	FB= FB-01 (from Flow Sprg)

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: All

1	E135B	11		21		31	
2	E137B	12		22		32	
3	P64C	13		23		33	
4	MB	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 15391A6
SDG #: 6096

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MH
2nd Reviewer:

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?		✓		
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.			✓	
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 53916b
SDG #: b96

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MM
2nd Reviewer: AC

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC #: 39186
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: MM
2nd reviewer: M

All circled methods are applicable to each sample.

Sample ID	Parameter
1-3	pH TDS (Cl) F (NO3) NO2 (SO4) PO4 (ALK) (CN) (NH3) (TKN) (TOC) CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
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	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+

Comments:

LDC #: 153986
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Calibration

Page: 1 of 1
Reviewer: MY
2nd Reviewer: A

METHOD: Inorganics, EPA Method See comment

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?
(Y) N N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% ?
(Y) N N/A Are all correlation coefficients ≥0.995 ?

LEVEL IV/D ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recaluculation Worksheet for recalulations.
(Y) N N/A Was a balance check conducted prior to the TDS analysis.?
(Y) N N/A Was the titrant normality checked?

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualifications
1	6/6/06	ICV	CN	76 (90-110)	All	J/UJ/P

Comments:

CAL6

LDC #: 15391A6
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: MY
2nd Reviewer: A

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
(Y) N N/A Were all samples associated with a given method blank?
(Y) N N/A Were any inorganic contaminants detected above the reporting limit in the method blanks? If yes, please see qualifications below.

Conc. units: mg/L

Associated Samples:

Analyte	Blank ID	Maximum ICB/CCB	Blank Action Limit	Sample Identification								
	MB			1	2	3						
CN	0.0076			0.0076	0.0076	0.0076						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

JD

LDC #: 15391A6
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: MH
2nd Reviewer: [illegible]

METHOD: Inorganics, EPA Method See comment

(Y) N N/A Were field blanks identified in this SDG?
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: mg/L
Sampling date: 5/31/06 Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: All

Analyte	Blank ID	Blank Action Limit	Sample Identification									
	FB-01		1	2	3							
Ca	0.22	1.1										
CN	0.0076	0.038	0.0076	0.0076	0.0076							

Blank units: _____ Associated sample units: _____
Sampling date: _____ Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Analyte	Blank ID	Blank Action Limit	Sample Identification									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 15391A6
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MY
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

The correlation coefficient (r) for the calibration of TKN was recalculated. Calibration date: 6/9/06

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		conc. (mg/L) (units)	Response (units)	Recalculated r or %R	Reported r or %R	Acceptable (Y/N)
Initial calibration	TKN	Blank			r=0.9997	r=1.000	Y
Calibration verification		Standard 1	0.20	0.595			
		Standard 2	0.40	0.618			
		Standard 3	1.00	0.760			
		Standard 4	2.00	1.004			
		Standard 5	5.00	1.715			
		Standard 6	10.0	3.035			
		Standard 7					
Calibration verification ccv/ics	Cl	20	21.54		108	108	Y
Calibration verification ccv	NH_3-N	0.75	0.7258		96.8	96.7	
Calibration verification ccv	NO_2-NO_3	2.5	2.70		108	108	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

N

LDC #: 15391A6
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MH
2nd Reviewer: C

METHOD: Inorganics, Method See Comm

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found / True x 100 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| / (S+D)/2 x 100 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	Alkalinity	46.2	50	92	92	Y
MS	Matrix spike sample		(SSR-SR)				
D	Duplicate sample						

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 1539A6
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MM
2nd reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments?
(Y) N N/A Are all detection limits below the CRQL?

Compound (analyte) results for | reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation:

$SO_4 = 9.204 \times 10^{-6} \times Abs - 0.1032$

$SO_4 = 9.204 \times 10^{-6} \times 4559839 - 0.1032$

$= 41.85$ mg/L

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
1	1	NH_3	0.61	0.61	Y
		Cl	40.9	40.9	
		CN	0.0076	0.0076	
		SO_4	41.8	41.8	
		Alk	244	244	
		TOC	1.6	1.6	

Note:

RECALC.6

Muskego OLF
Data Validation Reports
LDC# 15391

Metals

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: May 31, 2006

LDC Report Date: August 29, 2006

Matrix: Water

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: Lab

Sample Delivery Group (SDG): 6096

Sample Identification

E135B
E137B
P64C
E135BMS
E135BMSD
P64CMS
P64CMSD

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Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample FB-01 was identified as a field blank. No metal contaminants were found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
E135BMS/MSD (All samples in SDG 6096)	Barium Potassium	134.2 (75-125) 146.1 (75-125)	136.6 (75-125) 148.2 (75-125)	- -	J (all detects) J (all detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met.

XI. Sample Result Verification

All sample result verifications were acceptable.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Metals - Data Qualification Summary - SDG 6096

SDG	Sample	Analyte	Flag	A or P	Reason
6096	E135B E137B P64C	Barium Potassium	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)

Muskego OLF
Metals - Laboratory Blank Data Qualification Summary - SDG 6096

No Sample Data Qualified in this SDG

Muskego OLF
Metals - Field Blank Data Qualification Summary - SDG 6096

No Sample Data Qualified in this SDG

STL BUFFALO

Waste Management

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

E135B

Contract: NY95-481

Lab Code: STLBLFO Case No.: SAS No.: SDG NO.: 6096

Matrix (soil/water): WATER Lab Sample ID: AD630989

Level (low/med): LOW Date Received: 6/1/2006

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-38-2	Arsenic	2.85			M
7440-39-3	Barium	200	U	N	P
7440-70-2	Calcium	79400			P
7440-47-3	Chromium	10.0	U		P
7440-41-7	Beryllium	0.20	U		M
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	2140			P
7440-43-9	Cadmium	0.20	U		M
7439-95-4	Magnesium	32500			P
7439-96-5	Manganese	72.1			P
7440-02-0	Nickel	12.0	U		P
7440-09-7	Potassium	5000	U	N	P
7440-22-4	Silver	25.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	16100			P
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	5.0	U		P
7439-92-1	Lead	1.50	U		M
7440-36-0	Antimony	0.50	U		M
7782-49-2	Selenium	5.00	U		M
7440-28-0	Thallium	2.00	U		M

MM08300 6

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Waste Management

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

E137B

Contract: NY95-481

Lab Code: STLBLFO Case No.: SAS No.: SDG NO.: 6096

Matrix (soil/water): WATER Lab Sample ID: AD630994

Level (low/med): LOW Date Received: 6/1/2006

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-38-2	Arsenic	6.73			M
7440-39-3	Barium	287		N J	P
7440-70-2	Calcium	97200			P
7440-47-3	Chromium	10.0	U		P
7440-41-7	Beryllium	0.20	U		M
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	7310			P
7440-43-9	Cadmium	0.20	U		M
7439-95-4	Magnesium	56800			P
7439-96-5	Manganese	55.8			P
7440-02-0	Nickel	12.0	U		P
7440-09-7	Potassium	38200		N J	P
7440-22-4	Silver	25.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	79700			P
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	5.0	U		P
7439-92-1	Lead	1.50	U		M
7440-36-0	Antimony	0.50	U		M
7782-49-2	Selenium	5.00	U		M
7440-28-0	Thallium	2.00	U		M

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Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

Waste Management

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

P64C

Contract: NY95-481

Lab Code: STLBLFO Case No.: SAS No.: SDG NO.: 6096

Matrix (soil/water): WATER Lab Sample ID: AD630993

Level (low/med): LOW Date Received: 6/1/2006

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-38-2	Arsenic	2.00	U		M
7440-39-3	Barium	200	U	N	P
7440-70-2	Calcium	107000			P
7440-47-3	Chromium	10.0	U		P
7440-41-7	Beryllium	0.20	U		M
7440-48-4	Cobalt	6.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	2120			P
7440-43-9	Cadmium	0.20	U		M
7439-95-4	Magnesium	58000			P
7439-96-5	Manganese	72.3			P
7440-02-0	Nickel	12.0	U		P
7440-09-7	Potassium	5000	U	N	P
7440-22-4	Silver	25.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-23-5	Sodium	81500			P
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	6.0			P
7439-92-1	Lead	1.50	U		M
7440-36-0	Antimony	0.50	U		M
7782-49-2	Selenium	5.00	U		M
7440-28-0	Thallium	2.00	U		M

14408300b

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

LDC #: 15391A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/28/06
SDG #: 6096 Level IV Page: 1 of 1
Laboratory: Severn Trent Laboratories Reviewer: km
2nd Reviewer: ✓

METHOD: Metals (EPA SW 846 Method 6010B/6020/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5/31/06
II.	Calibration	A	
III.	Blanks	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	SW	
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	A	
IX.	Furnace Atomic Absorption QC	N	Not applicable
X.	ICP Serial Dilution	A	
XI.	Sample Result Verification	A	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	ND	FB= FB-01 (within SDG)

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: All

1	E135B	11		21		31	
2	E137B	12		22		32	
3	P64C	13		23		33	
4	E135BMS	14		24		34	
5	↓ MSD	15		25		35	
6	P64CMS	16		26		36	
7	↓ MSD	17		27		37	
8	MB	18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 15391A4
SDG #: 6095

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MM
2nd Reviewer: M

Method: Metals (EPA SW 846 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
V. Matrix Spike/Matrix Spike Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VI. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS CHECKLIST

Page: 2 of 4
Reviewer: LM
2nd Reviewer: IK

Validation Area	Yes	No	NA	Findings/Comments
VII. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
VIII. Internal Standards (EPA SW-846 Method 6020)				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XIII. Field blanks				
Field blanks were identified in this SDG.	✓		✓	
Target analytes were detected in the field blanks.		✓		

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MH
2nd reviewer: C

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-3	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
4-5	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
6-7	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP Trace		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___

Comments: Mercury by CVAA if performed

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: MH
2nd Reviewer: a

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	415	A2	Ba	134.2	136.6		All	J UA/A
			K	146.1	148.2		↓	↓

Comments:

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: LM
2nd Reviewer: R

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Mn	384.1	375	102.4	102.4	Y
↓	~~GFAA~~ (Initial calibration) ICP/MS	Pb	25.54	25	102.2	102.2	↓
	CVAA (Initial calibration)	Hg	3.07	3.0	102.3	102.3	
CCV	ICP (Continuing calibration)	Zn	515.5	500	103.1	103.1	
↓	~~GFAA~~ (Continuing calibration) ICP/MS	Cd	25.05	25	100.2	100.2	
	CVAA (Continuing calibration)	Hg	2.07	2.0	103.5	103.5	↓
	Cyanide (Initial calibration)						
	Cyanide (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MM
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recaluculated using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Ba	519.9	500	104	104	Y
LCS	Laboratory control sample	Be	21.29	20	106.4	106.4	
4	Matrix spike	Al	(SSR-SR) 10293	10000	102.9	102.9	
6/7	Duplicate	Pb	20.12	20.6	2.0	2.0	
1	ICP serial dilution	Ca	99.5X	99.4	0.1	0.1	N

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15391A4
SDG #: 6096

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MW
2nd reviewer: C

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Have results been reported and calculated correctly?
N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Recalculation:

From the raw data

Fe = 2.14 mg/L = 2142.4 ug/L

Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
1	As	2.85	2.85	Y
	Ca	79400	79400	
	Fe	2140	2140	
	Mg	32500	32500	
	Mn	92.1	92.1	
	Na	16100	16100	

RECALC.4S2

Data Verification Summary
Muskego Landfill Site
Groundwater Investigation

The groundwater investigation sampling and analysis was performed according to the Quality Assurance Project Plan (QAPP) prepared by RMT, Inc., in September 2005. The QAPP for the site included, among other items, the data quality objectives and methodology for evaluating the validity of the final groundwater sampling data.

The samples were analyzed for metals and inorganic indicator parameters by Severn Trent Laboratories located in Buffalo, New York. The samples were analyzed for volatile organic analytes by CT Laboratories, located in Baraboo, Wisconsin. RMT performed a verification of 100% of the laboratory data, and Laboratory Data Consultants, Inc. (LDC), performed validation of 10% of the samples. The following sections summarize the data verification procedure and the highlights of the data validation performed by LDC.

Results of the Validation

The data are usable for evaluation of the groundwater and private well samples analyzed.

Usability

The data quality objectives and laboratory completeness goals for the project were met by the laboratories. The data are usable for the purposes defined in the QAPP. The data packages were found to contain all of the deliverables specified in the QAPP. The discussion that follows describes the QA/QC results and evaluation.

Data Verification Procedure

RMT verified the laboratory data according to the QAPP. The data verification included a review of the spike, duplicate, and blank results from the laboratory, as well as verification that the sample holding times had been met. RMT reviewed additional QC information to check for appropriate matrix performance using the specified analytical methods. RMT performed the following tasks while evaluating the data:

- Checked technical holding times for analyses
- Reviewed data for blanks, matrix spikes, laboratory duplicates, and laboratory control samples
- Reviewed method blanks, project-specific matrix spike and matrix spike duplicate (MS/MSD) recoveries, field and laboratory duplicate relative percent differences (RPDs), laboratory control sample (LCS) recoveries, holding times, and temperature

- Determined field precision from blind field duplicate data
- Assessed the usability of results against the data quality objectives (DQOs)

The data verification report addresses the following items:

- Usability of the data if QC results suggest potential problems
- Potential sample contamination due to blank contributions, if applicable
- Actions regarding any specific QC criteria exceedences

Verification Findings

Verification of laboratory analyses found that the results were consistent with the National Functional Guidelines for Data Review and the QAPP. The discussion that follows describes the QA/QC results and evaluation:

- The laboratory met analytical holding times for all samples.
- Initial and continuing calibration verifications were within control limits.
- The laboratory performed blank spike, LCS, and ICP Interference Check Sample analysis with each analytical batch with acceptable results.
- The laboratory performed ICP serial dilution analyses with each analytical batch. All serial dilution results were acceptable.
- With the exception of methylene chloride in one batch of samples, the laboratory did not detect any analytes above the laboratory reporting limit in the method blanks associated with the samples. The methylene chloride detections have been qualified as not detected, "u", based on USEPA data validation guidelines.
- The laboratory performed an MS/MSD for measurement of laboratory accuracy and precision in the sample matrix as requested. All matrix spike recoveries and RPDs were within control limits, with a few exceptions. The recovery of total Kjeldahl nitrogen (TKN) in sample MW-04 (June 1, 2006) was low. The TKN result for that sample has been qualified as estimated, "j". The TKN result for MW-04 (June 28, 2006) verified the earlier result as not detected in the sample.
- Acetone was detected in one trip blank and was qualified as not detected in several related samples.
- Blind field duplicate samples were collected at wells MW-04, and MW-01 for the first sampling round, and at MW-02, and MW-04 for the later round. The precision between the blind field duplicate pairs was acceptable, at less than 40% RPD for target analytes that were reported at levels greater than 5 to 10 times the reporting limit. Greater variability is expected when reported values are near or less than the reporting limit, and these values should not be used to evaluate precision (RPD).

References

RMT, Inc. 2005. Quality assurance project plan. September 2005.

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

RMT, Inc.
744 Heartland Trail
Madison, WI 53717
ATTN: Mr. Greg Graf

October 3, 2006

SUBJECT: Muskego OLF, Data Validation

Dear Mr. Graf,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 20, 2006. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 15502:

SDG #	Fraction
54058, 54633	Volatiles

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI, September 2005
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Ming-Hwa Hwang
Project Manager/Senior Chemist

V:\LOGIN\RMT\15502COV.wpd

RTC (and job 15391)

Attachment 1

R1 Client chose different SDGs 10% Level IV only (2 WEEK TAT no charge) **LDC #15502 (RMT, Inc. / Muskego OLF)**

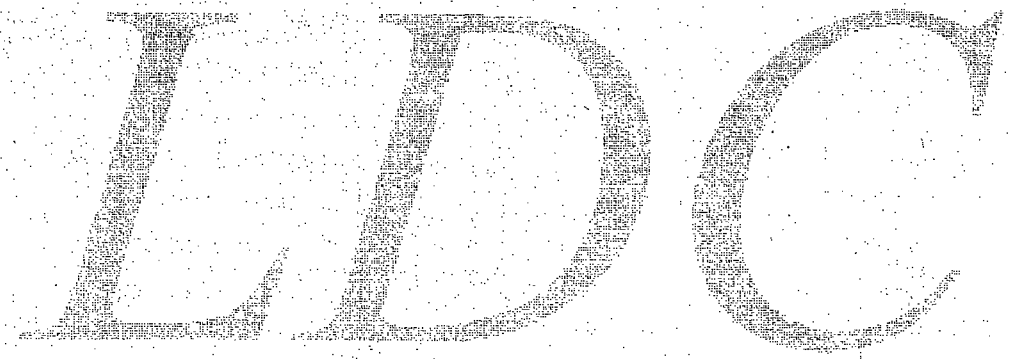
LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)																											
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	54058	09/20/06	10/04/06	6	0																										
B	54633	09/20/06	10/04/06		0																										
Total	L/MH			6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

52

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPs

Muskego OLF
Data Validation Reports
LDC# 15502

Volatiles



Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: May 31, 2006

LDC Report Date: September 29, 2006

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CT Laboratories

Sample Delivery Group (SDG): 54058

Sample Identification

E135B
P64C
E137B

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Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
5/8/06	2-Butanone	0.032 (≥0.05)	All samples in SDG 53699	J (all detects) UJ (all non-detects)	A
	Tetrahydrofuran	0.021 (≥0.05)		J (all detects) UJ (all non-detects)	

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

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For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
6/10/06	Bromomethane Methylene chloride	37.9 27.8	P64C E137B CB1 (blank)	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
6/9/06	2-Butanone Tetrahydrofuran	0.029 (≥0.05) 0.021 (≥0.05)	E135B 395014MB	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
6/10/06	2-Butanone Tetrahydrofuran	0.029 (≥0.05) 0.018 (≥0.05)	P64C E137B CB1 (blank)	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
395014MB	6/9/06	Methylene chloride	0.391 ug/L	E135B
CB1	6/10/06	Methylene chloride	0.7259 ug/L	P64C E137B

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

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Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
E135B	Methylene chloride	0.21 ug/L	0.21U ug/L
P64C	Methylene chloride	0.46 ug/L	0.46U ug/L
E137B	Methylene chloride	0.30 ug/L	0.30U ug/L

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

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XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Volatiles - Data Qualification Summary - SDG 54058

SDG	Sample	Compound	Flag	A or P	Reason
54058	E135B P64C E137B	2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
54058	P64C E137B	Bromomethane Methylene chloride	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
54058	E135B P64C E137B	2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)

Muskego OLF
Volatiles - Laboratory Blank Data Qualification Summary - SDG 54058

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
54058	E135B	Methylene chloride	0.21U ug/L	A
54058	P64C	Methylene chloride	0.46U ug/L	A
54058	E137B	Methylene chloride	0.30U ug/L	A

Muskego OLF
Volatiles - Field Blank Data Qualification Summary - SDG 54058

No Sample Data Qualified in this SDG

CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393593
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/09/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	0.16	J
74-83-9	Bromomethane	0.060	U
75-01-4	Vinyl chloride	0.091	
541-73-1	1,3-Dichlorobenzene	0.040	U
75-00-3	Chloroethane	0.078	J
106-46-7	1,4-Dichlorobenzene	0.050	U
75-09-2	Methylene chloride	0.21	A,B U
95-50-1	1,2-Dichlorobenzene	0.040	U
67-64-1	Acetone	2.4	J
75-15-0	Carbon disulfide	0.10	U
75-35-4	1,1-Dichloroethene	0.060	U
75-34-3	1,1-Dichloroethane	0.50	
67-66-3	Chloroform	0.070	U
107-06-2	1,2-Dichloroethane	0.082	J
78-93-3	2-Butanone	0.40	U UJ
71-55-6	1,1,1-Trichloroethane	0.070	U
56-23-5	Carbon tetrachloride	0.050	U
75-27-4	Bromodichloromethane	0.040	U
78-87-5	1,2-Dichloropropane	0.37	
120-82-1	1,2,4-Trichlorobenzene	0.060	U
10061-01-5	cis-1,3-Dichloropropene	0.016	U
91-20-3	Naphthalene	0.080	U
79-01-6	Trichloroethene	0.33	
124-48-1	Dibromochloromethane	0.090	U
79-00-5	1,1,2-Trichloroethane	0.090	U
87-68-3	Hexachlorobutadiene	0.080	U
71-43-2	Benzene	0.10	J
10061-02-6	trans-1,3-Dichloropropene	0.015	U
75-25-2	Bromoform	0.070	U
108-10-1	4-Methyl-2-pentanone	0.60	U
591-78-6	2-Hexanone	0.50	U
127-18-4	Tetrachloroethene	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.018	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393593
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/09/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.026	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	2.0	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.06C	U
108-20-3	Diisopropyl ether	0.07C	U
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.05C	U
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	0.70	U UJ
156-60-5	trans-1,2-Dichloroethene	0.14	

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CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393593
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/09/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	Trichlorofluoromethane	0.050	U
108-05-4	Vinyl acetate	0.40	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393595
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	0.087	
74-83-9	Bromomethane	0.060	U UJ
75-01-4	Vinyl chloride	2.4	
541-73-1	1,3-Dichlorobenzene	0.040	U
75-00-3	Chloroethane	0.19	
106-46-7	1,4-Dichlorobenzene	0.050	U
75-09-2	Methylene chloride	0.46	A,B UJ
95-50-1	1,2-Dichlorobenzene	0.040	U
67-64-1	Acetone	2.1	
75-15-0	Carbon disulfide	0.10	U
75-35-4	1,1-Dichloroethene	0.060	U
75-34-3	1,1-Dichloroethane	0.13	
67-66-3	Chloroform	0.070	U
107-06-2	1,2-Dichloroethane	0.040	U
78-93-3	2-Butanone	0.40	U UJ
71-55-6	1,1,1-Trichloroethane	0.070	U
56-23-5	Carbon tetrachloride	0.050	U
75-27-4	Bromodichloromethane	0.040	U
78-87-5	1,2-Dichloropropane	0.060	U
120-82-1	1,2,4-Trichlorobenzene	0.060	U
10061-01-5	cis-1,3-Dichloropropene	0.010	U
91-20-3	Naphthalene	0.080	U
79-01-6	Trichloroethene	0.038	
124-48-1	Dibromochloromethane	0.090	U
79-00-5	1,1,2-Trichloroethane	0.090	U
87-68-3	Hexachlorobutadiene	0.080	U
71-43-2	Benzene	0.050	U
10061-02-6	trans-1,3-Dichloropropene	0.015	U
75-25-2	Bromoform	0.070	U
108-10-1	4-Methyl-2-pentanone	0.60	U
591-78-6	2-Hexanone	0.50	U
127-18-4	Tetrachloroethene	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.018	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393595
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.02C	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	2.7	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.23	
108-20-3	Diisopropyl ether	0.07C	U
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.05C	U
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	0.70	U UJ
156-60-5	trans-1,2-Dichloroethene	0.19	

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CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393595
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	- - - - - - Trichlorofluoromethane	0.081	
108-05-4	- - - - - - Vinyl acetate	0.40	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393596
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	
74-87-3	Chloromethane	0.12		
74-83-9	Bromomethane	0.06C	U	UJ
75-01-4	Vinyl chloride	0.36		
541-73-1	1,3-Dichlorobenzene	0.04C	U	
75-00-3	Chloroethane	0.61		
106-46-7	1,4-Dichlorobenzene	0.05C	U	
75-09-2	Methylene chloride	0.30	A,B	UJ
95-50-1	1,2-Dichlorobenzene	0.04C	U	
67-64-1	Acetone	6.3		
75-15-0	Carbon disulfide	0.10	U	
75-35-4	1,1-Dichloroethene	0.06C	U	
75-34-3	1,1-Dichloroethane	0.80		
67-66-3	Chloroform	0.07C	U	
107-06-2	1,2-Dichloroethane	0.15		
78-93-3	2-Butanone	0.40	U	UJ
71-55-6	1,1,1-Trichloroethane	0.07C	U	
56-23-5	Carbon tetrachloride	0.05C	U	
75-27-4	Bromodichloromethane	0.04C	U	
78-87-5	1,2-Dichloropropane	0.12		
120-82-1	1,2,4-Trichlorobenzene	0.06C	U	
10061-01-5	cis-1,3-Dichloropropene	0.01C	U	
91-20-3	Naphthalene	0.08C	U	
79-01-6	Trichloroethene	0.13		
124-48-1	Dibromochloromethane	0.09C	U	
79-00-5	1,1,2-Trichloroethane	0.09C	U	
87-68-3	Hexachlorobutadiene	0.08C	U	
71-43-2	Benzene	0.73		
10061-02-6	trans-1,3-Dichloropropene	0.01C	U	
75-25-2	Bromoform	0.07C	U	
108-10-1	4-Methyl-2-pentanone	0.60	U	
591-78-6	2-Hexanone	0.50	U	
127-18-4	Tetrachloroethene	0.05C	U	
79-34-5	1,1,2,2-Tetrachloroethane	0.01C	U	

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393596
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.02C	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	0.63	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.10	
108-20-3	Diisopropyl ether	0.12	
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.077	
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	1.8	J
156-60-5	trans-1,2-Dichloroethene	0.08C	

MH100306

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54058
Sample wt/vol:	(g/mL)	CTL Sample ID:	393596
% Solids:		Date Received:	06/05/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/10/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	Trichlorofluoromethane	0.050	U
108-05-4	Vinyl acetate	0.40	U

14H100306

LDC #: 15502A1
SDG #: 54058
Laboratory: CT Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 9/22/06
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5/31/06
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	TW	YORSD.Y2
IV.	Continuing calibration / ICV	TW	
V.	Blanks	TW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	TW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1 /	E135B W	11	395014MB	21		31	
2	P64C	12		22		32	
3	E137B	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9
2nd Reviewer: 1

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 15503A1
SDG #: 07058

VALIDATION FINDINGS CHECKLIST

Reviewer: A
2nd Reviewer: E

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within + 30 seconds of the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Tetrahydrofuran
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM.
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: 9
2nd Reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	5/8/06	1 CAL	M		0.032	All + Blk	Y/N/A
			LLL		0.021		↓

INICAL.1SB

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: 9
2nd Reviewer: M

METHOD: GC/MS VOA (EPA SW 846 Method 8260)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y (N) N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	~~6/8/06~~	~~ICV1~~					
	6/9/06	CCV1	M		0.029	1-3, 5014MB	J/UJ/A
			LLL		0.021		
	6/10/06	CCV2	M		0.029	2-3, ~~Blk~~	J/UJ/A
			LLL		0.018		
			B	37.9			↓
			E	27.8			

CONCAL1S

LDC #: 15502A1
SDG #: 64058

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 6/9/06
Conc. units: ug/L
Associated Samples: ~~All~~ 1

Compound	Blank ID	Sample Identification								
	345014MB	~~2~~ 3		1						
Methylene chloride	0.391	~~0.46/U~~ 0.30/U		0.21/U						
Acetone										
CRQL										

Blank analysis date: 6/10/06
Conc. units: ug/L
Associated Samples: 2-3

Compound	Blank ID	Sample Identification								
	CB1	2	3							
Methylene chloride	0.T259	0.46/U	0.30/U							
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 4

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		MW01	FF	11 (49-159)	10 (49-159)	( )	None	No Qual
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 4

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (4 std)	Recalculated RRF (4 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	5/8/06	~~Methylene chloride~~ S (1st internal standard)	0.339	0.339	0.362	0.362	8.70	8.77
			~~Trichlorethene~~ CE (2nd internal standard)	2.314	2.314	2.481	2.481	8.96	8.96
			~~Toluene~~ DDD (3rd internal standard)	3.845	3.845	4.11T	4.117	9.89	9.89
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15502A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: M

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv1	6/9/06	~~Methylene chloride~~ S (1st Internal standard)	0.362	0.370	0.370	2.2	2.1
			~~Trichlorethene~~ 2E (2nd internal standard)	2.481	2.437	2.437	1.8	1.8
			~~Toluene~~ DDD (3rd internal standard)	4.117	3.992	3.992	3.0	3.0
2	ccv2	6/10/06	~~Methylene chloride~~ S (1st Internal standard)	0.362	0.356	0.356	1.7	1.5
			~~Trichlorethene~~ 2E (2nd internal standard)	2.481	2.393	2.393	3.5	3.5
			~~Toluene~~ DDD (3rd internal standard)	4.117	3.896	3.896	5.4	5.4
3			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15502A1
SDG #: 57058

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 395077

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	2		2.20		110	110				
Trichloroethene			2.17		108	108				
Benzene			2.12		106	106				
Toluene			2.09		104	104				
Chlorobenzene			2.02		101	101				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15924A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: 9
2nd reviewer: V

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	4	3.50	88	88	0
Bromofluorobenzene	↓	4.413	110	110	↓
1,2-Dichloroethane-d4		3.829	96	96	
Dibromofluoromethane		3.892	97	97	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 15202A1
SDG #: 54058

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: gr
2nd reviewer: c

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?
Y (N) N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 8 , S :

Conc. = $\frac{(3323)(4)(1)}{(95836)(0.362)(\ )(\ )}$

= 0.0383 µg/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: June 28 through June 29, 2006

LDC Report Date: September 29, 2006

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CT Laboratories

Sample Delivery Group (SDG): 54633

Sample Identification

E135B
P64C
E137B

85

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

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Date	Compound	%D	Associated Samples	Flag	A or P
7/5/06	Methylene chloride	32.8	All samples in SDG 54633	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

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XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Volatiles - Data Qualification Summary - SDG 54633

SDG	Sample	Compound	Flag	A or P	Reason
54633	E135B P64C E137B	Methylene chloride	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)

Muskego OLF
Volatiles - Laboratory Blank Data Qualification Summary - SDG 54633

No Sample Data Qualified in this SDG

Muskego OLF
Volatiles - Field Blank Data Qualification Summary - SDG 54633

No Sample Data Qualified in this SDG

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401366
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	0.19	
74-83-9	Bromomethane	0.06C	U
75-01-4	Vinyl chloride	0.11	
541-73-1	1,3-Dichlorobenzene	0.04C	U
75-00-3	Chloroethane	0.06C	U
106-46-7	1,4-Dichlorobenzene	0.05C	U
75-09-2	Methylene chloride	0.11	U UJ
95-50-1	1,2-Dichlorobenzene	0.04C	U
67-64-1	Acetone	1.5	U
75-15-0	Carbon disulfide	0.10	U
75-35-4	1,1-Dichloroethene	0.06C	U
75-34-3	1,1-Dichloroethane	0.51	
67-66-3	Chloroform	0.07C	U
107-06-2	1,2-Dichloroethane	0.071	
78-93-3	2-Butanone	0.40	U
71-55-6	1,1,1-Trichloroethane	0.07C	U
56-23-5	Carbon tetrachloride	0.05C	U
75-27-4	Bromodichloromethane	0.04C	U
78-87-5	1,2-Dichloropropane	0.35	
120-82-1	1,2,4-Trichlorobenzene	0.06C	U
10061-01-5	cis-1,3-Dichloropropene	0.01C	U
91-20-3	Naphthalene	0.08C	U
79-01-6	Trichloroethene	0.31	
124-48-1	Dibromochloromethane	0.09C	U
79-00-5	1,1,2-Trichloroethane	0.09C	U
87-68-3	Hexachlorobutadiene	0.08C	U
71-43-2	Benzene	0.12	
10061-02-6	trans-1,3-Dichloropropene	0.015	U
75-25-2	Bromoform	0.07C	U
108-10-1	4-Methyl-2-pentanone	0.60	U
591-78-6	2-Hexanone	0.50	U
127-18-4	Tetrachloroethene	0.05C	U
79-34-5	1,1,2,2-Tetrachloroethane	0.018	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401366
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.02C	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	2.1	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.064	
108-20-3	Diisopropyl ether	0.07C	U
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.05C	U
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	0.70	U
156-60-5	trans-1,2-Dichloroethene	0.15	

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

E135B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401366
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	Trichlorofluoromethane	0.050	U
108-05-4	Vinyl acetate	0.40	U

MW-0306

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401373
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	0.055	
74-83-9	Bromomethane	0.06C	U
75-01-4	Vinyl chloride	2.5	
541-73-1	1,3-Dichlorobenzene	0.04C	U
75-00-3	Chloroethane	0.20	
106-46-7	1,4-Dichlorobenzene	0.05C	U
75-09-2	Methylene chloride	0.11	U UJ
95-50-1	1,2-Dichlorobenzene	0.04C	U
67-64-1	Acetone	1.5	U
75-15-0	Carbon disulfide	0.10	U
75-35-4	1,1-Dichloroethene	0.06C	U
75-34-3	1,1-Dichloroethane	0.13	
67-66-3	Chloroform	0.07C	U
107-06-2	1,2-Dichloroethane	0.04C	U
78-93-3	2-Butanone	0.40	U
71-55-6	1,1,1-Trichloroethane	0.07C	U
56-23-5	Carbon tetrachloride	0.05C	U
75-27-4	Bromodichloromethane	0.04C	U
78-87-5	1,2-Dichloropropane	0.06C	U
120-82-1	1,2,4-Trichlorobenzene	0.06C	U
10061-01-5	cis-1,3-Dichloropropene	0.01C	U
91-20-3	Naphthalene	0.08C	U
79-01-6	Trichloroethene	0.03C	U
124-48-1	Dibromochloromethane	0.09C	U
79-00-5	1,1,2-Trichloroethane	0.09C	U
87-68-3	Hexachlorobutadiene	0.08C	U
71-43-2	Benzene	0.05C	U
10061-02-6	trans-1,3-Dichloropropene	0.015	U
75-25-2	Bromoform	0.07C	U
108-10-1	4-Methyl-2-pentanone	0.60	U
591-78-6	2-Hexanone	0.50	U
127-18-4	Tetrachloroethene	0.05C	U
79-34-5	1,1,2,2-Tetrachloroethane	0.018	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401373
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.026	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	2.5	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.28	
108-20-3	Diisopropyl ether	0.07C	U
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.05C	U
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	0.70	U
156-60-5	trans-1,2-Dichloroethene	0.17	

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

P64C

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401373
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/05/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	- - - - - - Trichlorofluoromethane	0.094	
108-05-4	- - - - - - Vinyl acetate	0.40	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401380
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/06/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	0.12	
74-83-9	Bromomethane	0.060	U
75-01-4	Vinyl chloride	0.46	
541-73-1	1,3-Dichlorobenzene	0.040	U
75-00-3	Chloroethane	0.67	
106-46-7	1,4-Dichlorobenzene	0.050	U
75-09-2	Methylene chloride	0.11	U UJ
95-50-1	1,2-Dichlorobenzene	0.040	U
67-64-1	Acetone	2.7	
75-15-0	Carbon disulfide	0.10	U
75-35-4	1,1-Dichloroethene	0.060	U
75-34-3	1,1-Dichloroethane	0.95	
67-66-3	Chloroform	0.070	U
107-06-2	1,2-Dichloroethane	0.15	
78-93-3	2-Butanone	0.40	U
71-55-6	1,1,1-Trichloroethane	0.070	U
56-23-5	Carbon tetrachloride	0.050	U
75-27-4	Bromodichloromethane	0.040	U
78-87-5	1,2-Dichloropropane	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.060	U
10061-01-5	cis-1,3-Dichloropropene	0.010	U
91-20-3	Naphthalene	0.080	U
79-01-6	Trichloroethene	0.10	
124-48-1	Dibromochloromethane	0.090	U
79-00-5	1,1,2-Trichloroethane	0.090	U
87-68-3	Hexachlorobutadiene	0.080	U
71-43-2	Benzene	0.74	
10061-02-6	trans-1,3-Dichloropropene	0.015	U
75-25-2	Bromoform	0.070	U
108-10-1	4-Methyl-2-pentanone	0.60	U
591-78-6	2-Hexanone	0.50	U
127-18-4	Tetrachloroethene	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.018	U

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401380
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/06/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-88-3	Toluene	0.08C	U
108-90-7	Chlorobenzene	0.05C	U
100-41-4	Ethylbenzene	0.05C	U
100-42-5	Styrene	0.04C	U
1330-20-7	m & p-Xylene	0.12	U
630-20-6	1,1,1,2-Tetrachloroethane	0.08C	U
563-58-6	1,1-Dichloropropene	0.06C	U
87-61-6	1,2,3-Trichlorobenzene	0.08C	U
96-18-4	1,2,3-Trichloropropane	0.09C	U
95-63-6	1,2,4-Trimethylbenzene	0.08C	U
96-12-8	1,2-Dibromo-3-chloropropane	0.02C	U
106-93-4	1,2-Dibromoethane	0.023	U
108-67-8	1,3,5-Trimethylbenzene	0.06C	U
142-28-9	1,3-Dichloropropane	0.05C	U
594-20-7	2,2-Dichloropropane	0.04C	U
95-49-8	2-Chlorotoluene	0.04C	U
106-43-4	4-Chlorotoluene	0.05C	U
108-86-1	Bromobenzene	0.06C	U
74-97-5	Bromochloromethane	0.05C	U
156-59-2	cis-1,2-Dichloroethene	0.77	
74-95-3	Dibromomethane	0.06C	U
75-71-8	Dichlorodifluoromethane	0.15	
108-20-3	Diisopropyl ether	0.093	
98-82-8	Isopropylbenzene	0.03C	U
1634-04-4	Methyl tert-butyl ether	0.064	
104-51-8	n-Butylbenzene	0.04C	U
103-65-1	n-Propylbenzene	0.04C	U
95-47-6	o-Xylene	0.04C	U
99-87-6	p-Isopropyltoluene	0.03C	U
135-98-8	sec-Butylbenzene	0.04C	U
98-06-6	tert-Butylbenzene	0.05C	U
109-99-9	Tetrahydrofuran	1.8	
156-60-5	trans-1,2-Dichloroethene	0.09C	

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E137B

Lab Name:	CT Laboratories	Contract:	RMT-MUSKEGO
Matrix:	GROUND WATER	SDG No.:	54663
Sample wt/vol:	(g/mL)	CTL Sample ID:	401380
% Solids:		Date Received:	07/01/2006
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/06/2006
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-69-4	Trichlorofluoromethane	0.050	U
108-05-4	Vinyl acetate	0.40	U

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LDC #: 15502B1
SDG #: 54633
Laboratory: CT Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 9/23/06
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/28/06 - 6/29/06
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	%RSD, r²
IV.	Continuing calibration ICV	SW	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	E135B	11	CB1	21		31	
2	P64C	12		22		32	
3	E137B	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 15502B1
SDG #: 54633

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9
2nd Reviewer: 4

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calib.				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

10

LDC #: 15502B1
SDG #: 54633

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: M

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.		✓	✓	
Target compounds were detected in the field blanks.			✓	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL.
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM.
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 15502B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

(Y) N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y (N) N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7/5/06	ccv	Z	32.8		All + ~~B~~	J/UJ/A

CONCAL.1S

LDC #: 15502B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: Q
2nd Reviewer: A

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		MW07	G	14 (28-168)	( )	67 (≤44)	None	No Qual ✓
			FF	2 (49-159)	3 (49-159)	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 15602B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (4 std)	Recalculated RRF (4 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	1CAL	7/4/06	~~Methylene chloride~~ S (1st internal standard)	0.347	0.347	0.341	0.341	3.38	3.40
			~~Trichlorethene~~ EE (2nd internal standard)	2.270	2.270	2.249	2.249	5.64	5.63
			~~Toluene~~ DDD (3rd internal standard)	3.664	3.664	3.641	3.641	4.95	4.95
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15502B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: M

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv2	7/5/06	~~Methylene chloride~~ S (1st internal standard)	0.341	0.367	0.367	7.6	7.7
			~~Trichlorethene~~ EE (2nd internal standard)	2.249	2.434	2.434	8.2	8.2
			~~Toluene~~ DDD (3rd internal standard)	3.641	3.885	3.885	6.7	6.7
2			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16502B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: 9
2nd reviewer: 2

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	4	3.189	80	80	0
Bromofluorobenzene	↓	3.931	98	98	↓
1,2-Dichloroethane-d4		3.903	98	98	
Dibromofluoromethane		3.764	94	94	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 15502B1
SDG #: 54663

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: a
2nd Reviewer: 1

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 403471

Compound	Spike Added (µg/L)		Spiked Sample Concentration (µg/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	2	NA	2.11		106	106				
Trichloroethene			2.23		112	112				
Benzene			2.09		104	104				
Toluene			2.00		100	100				
Chlorobenzene			2.09		104	104				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 15562B1
SDG #: ~~46352~~ 52463

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1 , 8 :

Conc. = $\frac{(18929)(4)(1)}{(721603)(0.341)(\quad)(\quad)}$

= 0.3077 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

10

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

RMT, Inc.
744 Heartland Trail
Madison, WI 53717
ATTN: Mr. Greg Graf

July 16, 2007

SUBJECT: Muskego OLF, Data Validation

Dear Mr. Graf,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on July 3, 2007. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 17077:

SDG #	Fraction
60636, 6371	Volatiles, Dissolved Metals, Wet Chemistry

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI, September 2005
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

E Rauts for

Ming-Hwa Hwang
Project Manager/Senior Chemist

2 WEEK TAT

RTC Selected Samples

LDC #17077 (RMT, Inc.-Madison, WI / Muskego OLF)

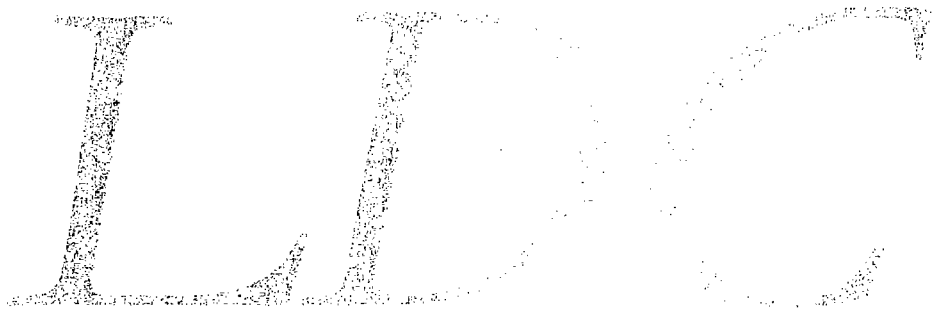
LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)		Diss. Metals (SW846)		Alk. (310.2)		NH_3 (350.1)		Cl,SO_4 (300.0)		NO_3 (353.2)		TKN (351.2)		TOC (415.1)													
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	60636	07/03/07	07/18/07	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
B	6371	07/03/7	07/18/07	-	-	4	0	4	0	4	0	4	0	4	0	4	0	4	0												
Total	B/MH			4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	32

hll

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample co not include MS/MSD, and DUPs

Muskego OLF
Data Validation Reports
LDC# 17077

Volatiles



Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: June 4 through June 7, 2007

LDC Report Date: July 13, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CT Laboratories

Sample Delivery Group (SDG): 60636

Sample Identification

MW-3
MW-10A
MW-04
E-135A
MW-10AMS
MW-10AMSD
E-135AMS
E-135AMSD

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
6/14/07	Acetone 2-Butanone Tetrahydrofuran	0.021 (≥0.05) 0.044 (≥0.05) 0.027 (≥0.05)	All samples in SDG 53699	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
6/15/07 (CCV2 16:25)	Tetrahydrofuran 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene Methylene chloride	25.9 30.6 37.3 31.2 81.6	MW-3 MW-10AMS MW-10AMSD CCB1	J (all detects) UJ (all non-detects)	A
6/16/07 (CCV1 6:36)	2,2-Dichloropropane cis-1,2-Dichloroethene Naphthalene Methylene chloride	31.4 37.5 30.1 71.7	MW-04 E-135A MB-6/16/07	J (all detects) UJ (all non-detects)	A
6/17/07 (CCV2 7:33)	2,2-Dichloropropane cis-1,2-Dichloroethene Naphthalene Methylene chloride	33.9 36.5 32.3 30.5	E-135AMS E-135AMSD CCB2	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
6/15/07 (CCV1 8:46)	Acetone 2-Butanone Tetrahydrofuran	0.018 (≥0.05) 0.039 (≥0.05) 0.022 (≥0.05)	MW-10A MB-6/15/07	J (all detects) UJ (all non-detects)	A
6/15/07 (CCV2 16:25)	Acetone 2-Butanone Tetrahydrofuran	0.019 (≥0.05) 0.037 (≥0.05) 0.020 (≥0.05)	MW-3 MW-10AMS MW-10AMSD CCB1	J (all detects) UJ (all non-detects)	A
6/16/07 (CCV1 6:36)	Acetone 2-Butanone Tetrahydrofuran	0.020 (≥0.05) 0.045 (≥0.05) 0.022 (≥0.05)	MW-04 E-135A MB-6/16/07	J (all detects) UJ (all non-detects)	A
6/17/07 (CCV2 7:33)	Acetone 2-Butanone Tetrahydrofuran	0.020 (≥0.05) 0.045 (≥0.05) 0.022 (≥0.05)	E-135AMS E-135AMSD CCB2	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MB-6/16/07	6/16/06	Chloromethane 1,1,1-Trichloroethane	0.110 ug/L 0.0746 ug/L	MW-04 E-135A
CCB1	6/15/06	Chloromethane	0.114 ug/L	MW-3

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
MW-04	Chloromethane	0.13 ug/L	0.13U ug/L
E-135A	Chloromethane	0.27 ug/L	0.27U ug/L
MW-3	Chloromethane	0.25 ug/L	0.25U ug/L

Samples "TRIP BLANK (6/5/07)" and "TRIP BLANK (6/7/07)" were identified as trip blanks. No volatile contaminants were found in these blanks with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
TRIP BLANK (6/5/07)	6/5/07	Acetone	2.9 ug/L	MW-3 MW-10A
TRIP BLANK (6/7/07)	6/7/07	Acetone	4.1 ug/L	MW-04 E-135A

Sample "FIELD BLANK (6/7/07)" was identified as a field blank. No volatile contaminants were found in this blank with the following exceptions:

Field Blank ID	Sampling Date	Compound	Concentration	Associated Samples
FIELD BLANK (6/7/07)	6/7/07	Acetone Chloromethane Tetrahydrofuran	2.4 ug/L 0.27 ug/L 2.2 ug/L	MW-04

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
MW-3	Acetone	3.0 ug/L	3.0U ug/L
MW-10A	Acetone	2.9 ug/L	2.9U ug/L
MW-04	Acetone Chloromethane	4.1 ug/L 0.13 ug/L	4.1U ug/L 0.13U ug/L
E-135A	Acetone	4.2 ug/L	4.2U ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
MB-6/15/07	Toluene-d8	74.0 (75-118)	All TCL compounds	J (all detects) UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) which were not within QC limits are listed below.

Spike ID	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)
MW-10AMS/MSD	Methylene chloride Styrene	0 (32-170) 0 (49-159)	0 (32-170) 4 (49-159)	- 200 (≤41)

Spike ID	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)
E-135AMS/MSD	Styrene	3 (49-159)	0 (49-159)	200 (≤41)
	Chloroethane	143 (84-139)	-	-
	1,1-Dichloroethane	178 (86-139)	-	29 (≤20)
	Di-isopropyl ether	160 (72-150)	-	43 (≤23)
	Vinyl acetate	-	-	33 (≤22)

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS-6/15/07	Di-isopropyl ether	160 (69-141)	MW-3 MW-10A MB-6/15/07	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Volatiles - Data Qualification Summary - SDG 60636

SDG	Sample	Compound	Flag	A or P	Reason
60636	MW-3 MW-10A MW-04 E-135A	Acetone 2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
60636	MW-3	Tetrahydrofuran 1,2,4-Trichlorobenzene Naphthalene 1,2,3-Trichlorobenzene Methylene chloride	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
60636	MW-04 E-135A	2,2-Dichloropropane cis-1,2-Dichloroethene Naphthalene Methylene chloride	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
60636	MW-3 MW-10A MW-04 E-135A	Acetone 2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
60636	MW-3 MW-10A	Di-isopropyl ether	J (all detects)	P	Laboratory control samples (%R)

Muskego OLF
Volatiles - Laboratory Blank Data Qualification Summary - SDG 60636

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
60636	MW-04	Chloromethane	0.13U ug/L	A
60636	E-135A	Chloromethane	0.27U ug/L	A
60636	MW-3	Chloromethane	0.25U ug/L	A

Muskego OLF
Volatiles - Field Blank Data Qualification Summary - SDG 60636

SDG	Sample	Compound	Modified Final Concentration	A or P
60636	MW-3	Acetone	3.0U ug/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
60636	MW-10A	Acetone	2.9U ug/L	A
60636	MW-04	Acetone Chloromethane	4.1U ug/L 0.13U ug/L	A
60636	E-135A	Acetone	4.2U ug/L	A

CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-3

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	476479
% Solids:		Date Received:	06/06/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q		LOD	RL	
74-87-3	Chloromethane	0.25		B	0.050	0.050	UJ
74-83-9	Bromomethane	0.070	U		0.070	0.070	
75-01-4	Vinyl chloride	0.63			0.013	0.013	
541-73-1	1,3-Dichlorobenzene	0.027	U		0.027	0.027	
75-00-3	Chloroethane	0.31			0.070	0.070	
106-46-7	1,4-Dichlorobenzene	0.040	U		0.040	0.040	
75-09-2	Methylene chloride	0.18	U	A	0.18	0.18	UJ
95-50-1	1,2-Dichlorobenzene	0.050	U		0.050	0.050	
67-64-1	Acetone	3.0			1.5	1.5	UJ
75-15-0	Carbon disulfide	0.090	U		0.090	0.090	
75-35-4	1,1-Dichloroethene	0.050	U		0.050	0.050	
75-34-3	1,1-Dichloroethane	0.060	U		0.060	0.060	
67-66-3	Chloroform	0.022	U		0.022	0.022	
107-06-2	1,2-Dichloroethane	0.030	U		0.030	0.030	
78-93-3	2-Butanone	0.60	U		0.60	0.60	UJ
71-55-6	1,1,1-Trichloroethane	0.050	U		0.050	0.050	
56-23-5	Carbon tetrachloride	0.022	U		0.022	0.022	
75-27-4	Bromodichloromethane	0.030	U		0.030	0.030	
78-87-5	1,2-Dichloropropane	0.050	U		0.050	0.050	
120-82-1	1,2,4-Trichlorobenzene	0.060	U		0.060	0.060	UJ
10061-01-5	cis-1,3-Dichloropropene	0.017	U		0.017	0.017	
91-20-3	Naphthalene	0.050	U		0.050	0.050	UJ
79-01-6	Trichloroethene	0.050	U		0.050	0.050	
124-48-1	Dibromochloromethane	0.026	U		0.026	0.026	
79-00-5	1,1,2-Trichloroethane	0.060	U		0.060	0.060	
87-68-3	Hexachlorobutadiene	0.050	U		0.050	0.050	
71-43-2	Benzene	0.050	U		0.050	0.050	
10061-02-6	trans-1,3-Dichloropropene	0.017	U		0.017	0.017	
75-25-2	Bromoform	0.040	U		0.040	0.040	
108-10-1	4-Methyl-2-pentanone	0.80	U		0.80	0.80	
591-78-6	2-Hexanone	1.6	U		1.6	1.6	
127-18-4	Tetrachloroethene	0.050	U		0.050	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U		0.019	0.019	

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CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

MW-3

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	476479
% Solids:		Date Received:	06/06/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q	LOD	RL	
108-88-3	Toluene	0.060	U	0.060	0.060	
108-90-7	Chlorobenzene	0.040	U	0.040	0.040	
100-41-4	Ethylbenzene	0.024	U	0.024	0.024	
100-42-5	Styrene	0.022	U	0.022	0.022	
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080	
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050	
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040	
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070	UJ
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030	
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027	
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050	
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050	
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024	
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070	
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030	
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040	
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050	
108-86-1	Bromobenzene	0.070	U	0.070	0.070	
74-97-5	Bromochloromethane	0.028	U	0.028	0.028	
156-59-2	cis-1,2-Dichloroethene	0.14		0.050	0.050	
74-95-3	Dibromomethane	0.060	U	0.060	0.060	
75-71-8	Dichlorodifluoromethane	0.79		0.030	0.030	
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060	
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040	
1634-04-4	Methyl tert-butyl ether	0.080	U	0.080	0.080	
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022	
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022	
95-47-6	o-Xylene	0.023	U	0.023	0.023	
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040	
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019	
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021	
109-99-9	Tetrahydrofuran	1.4	U	1.4	1.4	UJ
156-60-5	trans-1,2-Dichloroethene	0.060	U	0.060	0.060	

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CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-3

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	476479
% Solids:		Date Received:	06/06/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.27		0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-10A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol: (g/mL)		CTL Sample ID:	476485
% Solids:		Date Received:	06/06/2007
Soil Extract Vol: (mL)		Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q		LOD	RL	
74-87-3	Chloromethane	0.31			0.050	0.050	
74-83-9	Bromomethane	0.070	U		0.070	0.070	
75-01-4	Vinyl chloride	0.013	U		0.013	0.013	
541-73-1	1,3-Dichlorobenzene	0.027	U		0.027	0.027	
75-00-3	Chloroethane	0.070	U		0.070	0.070	
106-46-7	1,4-Dichlorobenzene	0.040	U		0.040	0.040	
75-09-2	Methylene chloride	0.18	U	M	0.18	0.18	
95-50-1	1,2-Dichlorobenzene	0.050	U		0.050	0.050	
67-64-1	Acetone	2.9			1.5	1.5	UJ
75-15-0	Carbon disulfide	0.090	U		0.090	0.090	
75-35-4	1,1-Dichloroethene	0.050	U		0.050	0.050	
75-34-3	1,1-Dichloroethane	0.060	U		0.060	0.060	
67-66-3	Chloroform	0.022	U		0.022	0.022	
107-06-2	1,2-Dichloroethane	0.030	U		0.030	0.030	
78-93-3	2-Butanone	0.60	U		0.60	0.60	UJ
71-55-6	1,1,1-Trichloroethane	0.050	U		0.050	0.050	
56-23-5	Carbon tetrachloride	0.022	U		0.022	0.022	
75-27-4	Bromodichloromethane	0.030	U		0.030	0.030	
78-87-5	1,2-Dichloropropane	0.050	U		0.050	0.050	
120-82-1	1,2,4-Trichlorobenzene	0.060	U		0.060	0.060	
10061-01-5	cis-1,3-Dichloropropene	0.017	U		0.017	0.017	
91-20-3	Naphthalene	0.050	U		0.050	0.050	
79-01-6	Trichloroethene	0.050	U		0.050	0.050	
124-48-1	Dibromochloromethane	0.026	U		0.026	0.026	
79-00-5	1,1,2-Trichloroethane	0.060	U		0.060	0.060	
87-68-3	Hexachlorobutadiene	0.050	U		0.050	0.050	
71-43-2	Benzene	0.075			0.050	0.050	
10061-02-6	trans-1,3-Dichloropropene	0.017	U		0.017	0.017	
75-25-2	Bromoform	0.040	U		0.040	0.040	
108-10-1	4-Methyl-2-pentanone	0.80	U		0.80	0.80	
591-78-6	2-Hexanone	1.6	U		1.6	1.6	
127-18-4	Tetrachloroethene	0.050	U		0.050	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U		0.019	0.019	

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

MW-10A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	476485
% Solids:		Date Received:	06/06/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
108-88-3	Toluene	0.12		0.060	0.060
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.024	U	0.024	0.024
100-42-5	Styrene	0.022	U M	0.022	0.022
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050
108-86-1	Bromobenzene	0.070	U	0.070	0.070
74-97-5	Bromochloromethane	0.028	U	0.028	0.028
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.050	0.050
74-95-3	Dibromomethane	0.060	U	0.060	0.060
75-71-8	Dichlorodifluoromethane	0.030	U	0.030	0.030
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040
1634-04-4	Methyl tert-butyl ether	0.080	U	0.080	0.080
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022
95-47-6	o-Xylene	0.023	U	0.023	0.023
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021
109-99-9	Tetrahydrofuran	1.4	U	1.4	1.4
156-60-5	trans-1,2-Dichloroethene	0.060	U	0.060	0.060

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CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-10A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	476485
% Solids:		Date Received:	06/06/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/15/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.060	U	0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

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CT Laboratories

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-04

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477137
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL	
74-87-3	Chloromethane	0.13	B	0.050	0.050	UJ
74-83-9	Bromomethane	0.070	U	0.070	0.070	
75-01-4	Vinyl chloride	1.5		0.013	0.013	
541-73-1	1,3-Dichlorobenzene	0.027	U	0.027	0.027	
75-00-3	Chloroethane	0.16		0.070	0.070	
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040	
75-09-2	Methylene chloride	0.18	U A	0.18	0.18	UJ
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.050	
67-64-1	Acetone	4.1		1.5	1.5	UJ
75-15-0	Carbon disulfide	0.090	U	0.090	0.090	
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050	
75-34-3	1,1-Dichloroethane	0.060	U	0.060	0.060	
67-66-3	Chloroform	0.022	U	0.022	0.022	
107-06-2	1,2-Dichloroethane	0.030	U	0.030	0.030	
78-93-3	2-Butanone	0.60	U	0.60	0.60	UJ
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.050	
56-23-5	Carbon tetrachloride	0.022	U	0.022	0.022	
75-27-4	Bromodichloromethane	0.030	U	0.030	0.030	
78-87-5	1,2-Dichloropropane	0.050	U	0.050	0.050	
120-82-1	1,2,4-Trichlorobenzene	0.060	U	0.060	0.060	
10061-01-5	cis-1,3-Dichloropropene	0.017	U	0.017	0.017	
91-20-3	Naphthalene	0.050	U	0.050	0.050	UJ
79-01-6	Trichloroethene	0.050	U	0.050	0.050	
124-48-1	Dibromochloromethane	0.026	U	0.026	0.026	
79-00-5	1,1,2-Trichloroethane	0.060	U	0.060	0.060	
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.050	
71-43-2	Benzene	0.050	U	0.050	0.050	
10061-02-6	trans-1,3-Dichloropropene	0.017	U	0.017	0.017	
75-25-2	Bromoform	0.040	U	0.040	0.040	
108-10-1	4-Methyl-2-pentanone	0.80	U	0.80	0.80	
591-78-6	2-Hexanone	1.6	U	1.6	1.6	
127-18-4	Tetrachloroethene	0.050	U	0.050	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U	0.019	0.019	

MW071307

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-04

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477137
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL	
108-88-3	Toluene	0.060	U	0.060	0.060	
108-90-7	Chlorobenzene	0.040	U	0.040	0.040	
100-41-4	Ethylbenzene	0.024	U	0.024	0.024	
100-42-5	Styrene	0.022	U	0.022	0.022	
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080	
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050	
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040	
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070	
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030	
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027	
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050	
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050	
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024	
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070	
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030	UJ
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040	
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050	
108-86-1	Bromobenzene	0.070	U	0.070	0.070	
74-97-5	Bromochloromethane	0.028	U	0.028	0.028	
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.050	0.050	UJ
74-95-3	Dibromomethane	0.060	U	0.060	0.060	
75-71-8	Dichlorodifluoromethane	0.35		0.030	0.030	
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060	
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040	
1634-04-4	Methyl tert-butyl ether	0.080	U	0.080	0.080	
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022	
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022	
95-47-6	o-Xylene	0.023	U	0.023	0.023	
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040	
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019	
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021	
109-99-9	Tetrahydrofuran	1.4	U	1.4	1.4	UJ
156-60-5	trans-1,2-Dichloroethene	0.060	U	0.060	0.060	

6/19/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW-04

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477137
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.15		0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

hm 07/30/7

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E-135A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477145
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL	
74-87-3	Chloromethane	0.27	B	0.050	0.050	UJ
74-83-9	Bromomethane	0.070	U	0.070	0.070	
75-01-4	Vinyl chloride	0.59		0.013	0.013	
541-73-1	1,3-Dichlorobenzene	0.027	U	0.027	0.027	
75-00-3	Chloroethane	1.1	M	0.070	0.070	
106-46-7	1,4-Dichlorobenzene	0.19		0.040	0.040	
75-09-2	Methylene chloride	0.18	U A	0.18	0.18	UJ
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.050	
67-64-1	Acetone	4.2		1.5	1.5	UJ
75-15-0	Carbon disulfide	0.090	U	0.090	0.090	
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050	
75-34-3	1,1-Dichloroethane	1.4	M,Y	0.060	0.060	
67-66-3	Chloroform	0.022	U	0.022	0.022	
107-06-2	1,2-Dichloroethane	0.46		0.030	0.030	
78-93-3	2-Butanone	0.60	U	0.60	0.60	UJ
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.050	
56-23-5	Carbon tetrachloride	0.022	U	0.022	0.022	
75-27-4	Bromodichloromethane	0.030	U	0.030	0.030	
78-87-5	1,2-Dichloropropane	0.42		0.050	0.050	
120-82-1	1,2,4-Trichlorobenzene	0.060	U	0.060	0.060	
10061-01-5	cis-1,3-Dichloropropene	0.017	U	0.017	0.017	
91-20-3	Naphthalene	0.050	U	0.050	0.050	UJ
79-01-6	Trichloroethene	0.050	U	0.050	0.050	
124-48-1	Dibromochloromethane	0.026	U	0.026	0.026	
79-00-5	1,1,2-Trichloroethane	0.060	U	0.060	0.060	
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.050	
71-43-2	Benzene	0.39		0.050	0.050	
10061-02-6	trans-1,3-Dichloropropene	0.017	U	0.017	0.017	
75-25-2	Bromoform	0.040	U	0.040	0.040	
108-10-1	4-Methyl-2-pentanone	0.80	U	0.80	0.80	
591-78-6	2-Hexanone	1.6	U	1.6	1.6	
127-18-4	Tetrachloroethene	0.050	U	0.050	0.050	
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U	0.019	0.019	

VM 07/30/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E-135A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477145
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL	
108-88-3	Toluene	0.06C	U	0.060	0.060	
108-90-7	Chlorobenzene	0.41		0.040	0.040	
100-41-4	Ethylbenzene	0.024	U	0.024	0.024	
100-42-5	Styrene	0.022	U M	0.022	0.022	
1330-20-7	m & p-Xylene	0.08C	U	0.080	0.080	
630-20-6	1,1,1,2-Tetrachloroethane	0.05C	U	0.050	0.050	
563-58-6	1,1-Dichloropropene	0.04C	U	0.040	0.040	
87-61-6	1,2,3-Trichlorobenzene	0.07C	U	0.070	0.070	
96-18-4	1,2,3-Trichloropropane	0.03C	U	0.030	0.030	
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027	
96-12-8	1,2-Dibromo-3-chloropropane	0.05C	U	0.050	0.050	
106-93-4	1,2-Dibromoethane	0.05C	U	0.050	0.050	
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024	
142-28-9	1,3-Dichloropropane	0.07C	U	0.070	0.070	
594-20-7	2,2-Dichloropropane	0.03C	U	0.030	0.030	UJ
95-49-8	2-Chlorotoluene	0.04C	U	0.040	0.040	
106-43-4	4-Chlorotoluene	0.05C	U	0.050	0.050	
108-86-1	Bromobenzene	0.07C	U	0.070	0.070	
74-97-5	Bromochloromethane	0.028	U	0.028	0.028	
156-59-2	cis-1,2-Dichloroethene	1.6	A	0.050	0.050	J
74-95-3	Dibromomethane	0.06C	U	0.060	0.060	
75-71-8	Dichlorodifluoromethane	0.48		0.030	0.030	
108-20-3	Diisopropyl ether	0.16	M,Y	0.060	0.060	
98-82-8	Isopropylbenzene	0.04C	U	0.040	0.040	
1634-04-4	Methyl tert-butyl ether	0.08C	U	0.080	0.080	
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022	
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022	
95-47-6	o-Xylene	0.023	U	0.023	0.023	
99-87-6	p-Isopropyltoluene	0.04C	U	0.040	0.040	
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019	
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021	
109-99-9	Tetrahydrofuran	1.4	U	1.4	1.4	UJ
156-60-5	trans-1,2-Dichloroethene	0.27		0.060	0.060	

6/19/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E-135A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	60636
Sample wt/vol:	(g/mL)	CTL Sample ID:	477145
% Solids:		Date Received:	06/08/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	06/16/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.060	U	0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

6/16/07

LDC #: 17077A1 **VALIDATION COMPLETENESS WORKSHEET** Date: 7/12/07
SDG #: 60636 Level IV Page: 1 of 1
Laboratory: CT Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached *validation findings worksheets.*

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/4/07 – 6/7/07
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	% RSD, r^2 20-990
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	not Reported
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	TB = TRIP Blank (6/5/07) TRIP Blank (6/7/07) FB = Field Blank 6/7/07

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1 +1	MW-3 6/4	11 2	~~6/5~~ CCB1	21		31	
2 +1	MW-10A 6/5	12 4	CCB2	22		32	
3 +2	MW-04 6/7	13	6/6	23		33	
4 +2	E-135A 6/6	14		24		34	
5 +1	MW-10AMS	15		25		35	
6 +1	MW-10AMSD	16		26		36	
7 +1	E-135AMS	17		27		37	
8 +1	E-135AMSD	18		28		38	
9 +1	MB – 6/15/07	19		29		39	
10 +2	MB – 6/16/07	20		30		40	

LDC #: 17077A1
SDG #: 600636

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: EF
2nd Reviewer: [illegible]

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

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DC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS CHECKLIST

Reviewer: JJ
2nd Reviewer: MM

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
II. Performance Evaluation/Analytical Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
III. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within + 30 seconds of the associated calibration standard?	✓			
IV. Compound Identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
V. Compound Quantitation and CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
VI. Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
VII. System Performance				
System performance was found to be acceptable.	✓			
VIII. Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field Duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
X. Field Blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl choride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 17077A1
SDG #: 66636

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	6/14/07	ICAL-GCMS1	F		~~0.049~~ 0.021	All + Blk	J/UJ/A
			M		0.044	↓	↓
			Tetrahydrofuran		0.027		

INICAL.1SB

LDC #: 17077A1
SDG #: 66636

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 2
Reviewer: EJ
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	6/15/07 8:46	ccv1	F		0.018	MB-6/15/07, 2	J/UJ/A
			M		0.039		
			tetrahydrofuran		0.022		
	6/15/07 16:25	ccv2	F		0.019	CCB1, 1, 5, 6	J/UJ/A
			M		0.037		
			Tetrahydrofuran	25.9	0.020		
			KKK	30.6			
			MMM	37.3			
			NNN	31.2			
			E	81.6	~~<0.05~~		J/UJ/A
	6/16/07 6:36	ccv1	F		0.020	MB-6/16/07 3, 4	J/UJ/A
			OO	31.4			
			QQQ	37.5			
			M		0.045		
			Tetrahydrofuran		0.022		
			SMMM	30.1			
			E	71.7			J/UJ/A

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	6/17/07 7:33	CCV2	F		0.020	CCB2, 7, 8	J / NJ / A
			BB	33.9			
			QQQ	36.5			
			M		0.045		
			tetrahydrofuran		0.022		
			MMM	32.3			
			E	30.5			

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 6/16/07
Conc. units: ug/L
Associated Samples: 3, 4

Compound		Blank ID	Sample Identification								
		MB-6/16	7	3	4						
Methylene chloride	A	0.110		0.13/U	0.27/U						
Acetone	N	0.0746		-	-						
CRQL											

Blank analysis date: 6/15/07
Conc. units: ug/L
Associated Samples: 1

Compound		Blank ID	Sample Identification								
		CCB1		1							
Methylene chloride	A	0.114		0.25/U							
Acetone											
CRQL											

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: TB Associated Samples: 1, 2

Compound	Trip Blank Blank ID 6/5/07	Blank ID	Sample Identification							
Sampling Date	6/5/07		1	2						
~~Methylene chloride~~ F	2.9		3.0/U	2.9/U						
Acetone										
~~Chloroform~~										
CRQL										

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: TB Associated Samples: 3, 4

Compound	Trip Blank Blank ID 6/7/07	Blank ID	Sample Identification							
Sampling Date	6/7/07		3	4						
~~Methylene chloride~~ F	4.1		4.1/U	4.2/U						
Acetone										
~~Chloroform~~										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: F
2nd Reviewer: JWL

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L

Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: FB Associated Samples: 3

Compound	Field Blank ID	Blank ID	Blank ID	Sample Identification							
[redacted]	6/7/07		3		3						
Methylene chloride F	2.4		0.13 U		4.1 U						
Acetone A	0.27		4.1 U		0.13 U						
Tetrahydrofuran Chloroform	2.2		—		—						
CRQL											

Blank units: _____ **Associated sample units:** _____

Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Blank ID	Sample Identification							
[redacted]										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all surrogate %R within QC limits?

Y (N) N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Sample ID	Surrogate	%Recovery (Limits)	Qualifications
		MB - 6/15/07	TOL	74.0 (75-118	J/UJ/P
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		5+6	E	0 (32-170)	0 (32-170)	( )		Text
			FF	0 (49-159)	4 (49-159)	200 (41)		↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
		7+8	FF	3 (49-159)	0 (49-159)	200 (41)		Text
			D	143 (84-139)	( )	( )		
			I	178 (86-139)	( )	29 (20)		↓
			XXX	160 (72-154)	( )	43 (23)		
			HH	( )	( )	33 (22)		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: TT
2nd Reviewer: MM

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS- 6/15/07	XXX	160 (69-141)	( )	( )	MB - 6/15/07,	J/P det
				( )	( )	( )	1, 2	
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_h)/(A_h)(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_h = Area of associated internal standard
C_h = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (2 std)	Recalculated RRF (2 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL GCMS-1	6/14/07	~~Methylene~~ Vinyl chloride (1st internal standard)	0.324	0.324	0.308	0.308	6.76	6.76
			~~Trichloroethene~~ Ethyl Benzene (2nd internal standard)	2.338	2.338	2.179	2.179	8.50	8.50
			~~Toluene~~ 1,2-DCB (3rd internal standard)	1.589	1.589	1.520	1.520	4.60	4.60
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 12022A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv1	6/15/07	~~Methylene~~ vinyl chloride (1st Internal standard)	0.308	0.303	0.303	1.6	1.6
	8:46		~~Trichloroethene~~ Ethyl Benzene (2nd Internal standard)	2.179	2.016	2.016	7.5	7.5
			~~Toluene~~ 1,2-DCB (3rd Internal standard)	1.520	1.437	1.437	5.5	5.5
2	ccv2	6/15/07	~~Methylene~~ vinyl chloride (1st Internal standard)	0.308	0.299	0.299	2.9	2.9
	16:25		~~Trichloroethene~~ Ethyl Benzene (2nd Internal standard)	2.179	1.886	1.886	13.4	13.4
			~~Toluene~~ 1,2-DCB (3rd Internal standard)	1.520	1.353	1.353	11.0	11.0
3	ccv3	6/16/07	~~Methylene~~ vinyl chloride (1st Internal standard)	0.308	0.348	0.348	13.0	13.0
	6:36		~~Trichloroethene~~ Ethyl Benzene (2nd Internal standard)	2.179	2.249	2.249	3.2	3.2
			~~Toluene~~ 1,2-DCB (3rd Internal standard)	1.520	1.483	1.483	2.4	2.4
4			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer:
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	4.0	2.857	71	71	0
Bromofluorobenzene	↓	3.364	84	84	↓
1,2-Dichloroethane-d4	↓	3.493	87	87	↓
Dibromofluoromethane	↓	3.444	86	86	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 17677A/
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = | MSC - MSDC | * 2/(MSC + MSDC) MSC = Matrix spike percent recovery MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 7 + 8

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-----	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	2.0	2.0	0	2.10	1.87	105	105	94	94	12	12
Trichloroethene			0.039	2.04	2.01	100	100	99	99	1	1
Benzene			0.39	2.64	2.56	112	112	108	108	3	3
Toluene			0	1.76	1.73	88	88	86	86	2	2
Chlorobenzene			0.41	2.63	2.56	111	111	108	108	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboractry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS 6/15/07

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	2.0	NA	2.08	NA	104	104				
Trichloroethene			2.01		100	100				
Benzene			1.95		98	98				
Toluene			1.91		96	96				
Chlorobenzene	↓	↓	2.0	↓	100	100	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

DC #: 17077A1
SDG #: 60636

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

- A_x = Area of the characteristic ion (EICP) for the compound to be measured
- A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- RRF = Relative response factor of the calibration standard.
- V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).
- Df = Dilution factor.
- %S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1. Chloromethane

Conc. = $\frac{(24654)(4.0)(\quad)(\quad)(\quad)}{(73336)(0.544)(\quad)(\quad)}$

= 0.25

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Muskego OLF
Data Validation Reports
LDC# 17077

Dissolved Metals

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: June 7 through June 8, 2007

LDC Report Date: July 13, 2007

Matrix: Water

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): 6371

Sample Identification

E-93D
MW-4
PW-MOELLER
PZ-STAGECOACH

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met with the following exceptions:

Date	Lab. Reference/ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
6/15/07	CCV (15:25)	Beryllium	112 (85-115)	PB1	J (all detects)	P
6/15/07	CCV (16:57)	Beryllium	117 (85-115)	E-93D MW-4	J (all detects)	P
6/15/07	CCV (17:43)	Beryllium	117 (85-115)	E-93D MW-4	J (all detects)	P

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	8.5 ug/L	E-93D MW-4

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

Sample "FIELD BLANK" was identified as a field blank. No metal contaminants were found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

The laboratory has indicated that there were no matrix spike (MS) analyses specified for the samples in this SDG, and therefore matrix spike analyses were not performed for this SDG.

VI. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

All sample result verifications were acceptable.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Metals - Data Qualification Summary - SDG 6371

SDG	Sample	Analyte	Flag	A or P	Reason
6371	E-93D MW-4	Beryllium	J (all detects)	P	Calibration (CCV %R)

Muskego OLF
Metals - Laboratory Blank Data Qualification Summary - SDG 6371

No Sample Data Qualified in this SDG

Muskego OLF
Metals - Field Blank Data Qualification Summary - SDG 6371

No Sample Data Qualified in this SDG

STL BUFFALO

Waste Management

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management SDG No.: 6371 Method Type:

Sample ID: A7637101 Client ID: E-93D

Matrix: WATER Date Received: 6/8/2007 Date Collected: 6/7/2007 Level: LOW

% Solids: Sample Wt/Vol: 50.0 Final Vol: 50.0

Prep Batch ID: A7B09294 Prep Date: 6/15/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Barium		**125**	**ug/L**			**5.0**	5.0	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Calcium		**98800**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Iron		**1620**	**ug/L**			**60.0**	60.0	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Magnesium		**58800**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Manganese		**49.7**	**ug/L**			**15.0**	15.0	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Potassium	<	5000	ug/L	U		5000	5000	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Silver	<	10.0	ug/L	U		10.0	10.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	6/12/2007	17:04:16	LEEMAN PS2	L20612SY	CV
Sodium		**129000**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**17:31**	SUPERTRACE	106150Y	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	6/15/2007	17:31	SUPERTRACE	106150Y	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	6/15/2007	17:16:36	ELAN-ICPMS	E061507A	M

Comments:

lm 07/30/07 166

STL BUFFALO

Waste Management

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INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** 6371 **Method Type:**

Sample ID: A7637106 **Client ID:** MW-4

Matrix: WATER **Date Received:** 6/8/2007 **Date Collected:** 6/7/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B09294 **Prep Date:** 6/15/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Barium		**174**	**ug/L**			**5.0**	5.0	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Calcium		**122000**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Iron		**3560**	**ug/L**			**60.0**	60.0	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Magnesium		**68100**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Manganese		**52.4**	**ug/L**			**15.0**	15.0	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Potassium	<	5000	ug/L	U		5000	5000	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Silver	<	10.0	ug/L	U		10.0	10.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	6/12/2007	17:15:41	LEEMAN PS2	L20612SY	CV
Sodium		**92600**	**ug/L**			**5000**	5000	**1**	**6/15/2007**	**18:07**	SUPERTRACE	106150Y	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	6/15/2007	18:07	SUPERTRACE	106150Y	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	6/15/2007	17:36:04	ELAN-ICPMS	E061507A	M

Comments:

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STL BUFFALO

Waste Management

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INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** 6371 **Method Type:**

Sample ID: A7642802 **Client ID:** PW-MOELLER

Matrix: WATER **Date Received:** 6/9/2007 **Date Collected:** 6/8/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B09421 **Prep Date:** 6/18/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Analytical Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Barium		**192**	**ug/L**			**5.0**	5.0	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Calcium		**112000**	**ug/L**			**5000**	5000	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Iron		**3720**	**ug/L**			**60.0**	60.0	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Magnesium		**63000**	**ug/L**			**5000**	5000	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Manganese		**29.0**	**ug/L**			**15.0**	15.0	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Potassium	<	5000	ug/L	U		5000	5000	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Silver	<	10.0	ug/L	U		10.0	10.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	6/19/2007	15:14:18	LEEMAN PS2	L20619SW	CV
Sodium		**109000**	**ug/L**			**5000**	5000	**1**	**6/18/2007**	**17:25**	SUPERTRACE	A061807	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	6/18/2007	17:25	SUPERTRACE	A061807	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	6/18/2007	19:35:22	ELAN-ICPMS	E061807X	M

Comments:

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STL BUFFALO

Waste Management

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INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** 6371 **Method Type:**

Sample ID: A7642806 **Client ID:** PZ-STAGECOACH

Matrix: WATER **Date Received:** 6/9/2007 **Date Collected:** 6/8/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B09421 **Prep Date:** 6/18/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Analytical Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Barium	<	5.0	ug/L	U		5.0	5.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Calcium	<	5000	ug/L	U		5000	5000	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Iron		**611**	**ug/L**			**60.0**	60.0	**1**	**6/18/2007**	**17:59**	SUPERTRACE	A061807	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Magnesium		**54600**	**ug/L**			**5000**	5000	**1**	**6/18/2007**	**17:59**	SUPERTRACE	A061807	P
Manganese	<	15.0	ug/L	U		15.0	15.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Potassium	<	5000	ug/L	U		5000	5000	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Silver	<	10.0	ug/L	U		10.0	10.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	6/19/2007	15:20:31	LEEMAN PS2	L20619SW	CV
Sodium		**95600**	**ug/L**			**5000**	5000	**1**	**6/18/2007**	**17:59**	SUPERTRACE	A061807	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	6/18/2007	17:59	SUPERTRACE	A061807	P
Zinc		**21.7**	**ug/L**			**20.0**	20.0	**1**	**6/18/2007**	**17:59**	SUPERTRACE	A061807	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	6/18/2007	19:58:45	ELAN-ICPMS	E061807X	M

Comments:

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LDC #: 17077B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/11/07
SDG #: 6371 Level IV Page: 1 of 1
Laboratory: Severn Trent Laboratories, Inc. Reviewer: MM
2nd Reviewer: DMB

METHOD: Dissolved Metals (EPA SW 846 Method 6010B/6020/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/7/07 - 6/8/07
II.	Calibration	SW	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	N	Client specified
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	A	
IX.	Furnace Atomic Absorption QC	N	Not utilized
X.	ICP Serial Dilution	N	Not performed.
XI.	Sample Result Verification	A	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	ND	FB = FIELD BLANK (from this SDG)

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All

1	E-93D	11	PB1	21		31	
2	MW-4	12	PB2	22		32	
3	PW-MOELLER	13		23		33	
4	PZ-STAGECOACH	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 19077B4
SDG #: 6377

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MH
2nd Reviewer: MH

Method: Metals (EPA SW 846 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?		✓		
Were all initial calibration correlation coefficients > 0.995? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Interference Check Samples				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
V. Matrix Spike/Matrix Spike Duplicate				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were < 5X the RL.			✓	
VI. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	

LDC #: 17077B4
SDG #: 6371

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: [illegible]
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
[illegible]				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?		✓		> 100X [illegible]
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
[illegible]				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

LDC #: 17077B4
SDG #: 637

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MH
2nd reviewer: MH

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-4	AQ	(Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn,) Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP Trace		(Al) Sb, As, (Ba) Be, Cd, (Ca, Cr, Co, Cu, Fe) Pb, (Mg) (Mn) Hg, (Ni) (K) Se, (Ag) (Na) Tl, (V, Zn,) Mo, B, Si, CN, ___ ___
ICP-MS		Al, (Sb) (As) Ba, (Be) (Cd) Ca, Cr, Co, Cu, Fe, (Pb) Mg, Mn, Hg, Ni, K, (Se) Ag, Na, (Tl) V, Zn, Mo, B, Si, CN, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN,

Comments: (Mercury by CVAA if performed)

LDC #: 17077B4
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Calibration

Page: 1 of 1
Reviewer: MH
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were all instruments calibrated daily, each set-up time, and were the proper number of standards used?

Y (N) N/A Were all initial and continuing calibration verification percent recoveries (%R) within the control limits of 90-110% for all analytes except mercury (80-120%) and cyanide (85-115%)?

LEVEL IV ONLY:

Y N (N/A) Was a midrange cyanide standard distilled?

(Y) N N/A Are all correlation coefficients ≥0.995?

(Y) N N/A Were recalculated results acceptable? See Level IV Initial and Continuing Calibration Recalculation Worksheet for recalculations.

#	Date	Calibration ID	Analyte	%R	Associated Samples	Qualification of Data
1	6/15/07	CCV (15:25)	Be	112	PB1	J+/P
2	6/15/07	CCV (16:57)	↓	117	1, 2	↓
3	6/15/07	CCV (17:43)	↓	117	↓	↓

Comments:

CAL4SW

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LDC #: 17077B4
SDG #: 637

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: WN
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: _____
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: 1, 2 (NO)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Blank Action Limit	Sample Identification										
Al															Al
Sb															Sb
As															As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr		8.5		42.5											Cr
Co															Co
Cu															Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 17077B4
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Zn	380	375	101	101	Y
↓	~~GFAA~~ (Initial calibration) TCP/MS	Sb	25.31	25.0	1.01	101	↓
↓	CVAA (Initial calibration)	Hg	2.95	3.0	98	98	↓
CCV	ICP (Continuing calibration)	Ni	490	500	98	98	↓
↓	GFAA (Continuing calibration)	Tl	27.32	25.0	109	109	↓
↓	CVAA (Continuing calibration)	Hg	2.0	2.0	100	100	↓
	Cyanide (Initial calibration)						
	Cyanide (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

9LI

LDC #: 17077B4
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: MM
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recaluculated using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interferance check	Ag	20.24	20	101	101	Y
LCS	Laboratory control sample	Co	189.5	200	95	95	↓
MB	Matrix spike		(SSR-SR)				
↓	Duplicate						
	ICP serial dilution						

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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LDC #: 17077B4
SDG #: 6271

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MW
2nd reviewer: amk

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for 1 were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(DI)}{(In.\ Vol.)(\%S)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
DI = Dilution factor
%S = Decimal percent solids

Recalculation:

From raw data

$Mn = 0.04969\ mg/L = 49.69\ ug/L$

Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
1	Ba	125	125	Y
	Ca	98800	98800	
	Fe	1620	1620	
	Mg	58800	58800	
	Mn	49.7	49.7	
	Na	129000	129000	Y

RECALC.4S2

Muskego OLF
Data Validation Reports
LDC# 17077

Wet Chemistry

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: June 7, 2007

LDC Report Date: July 12, 2007

Matrix: Water

Parameters: Wet Chemistry

Validation Level: EPA Level IV

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): 6371

Sample Identification

E-93D
MW-14A
MW-4
MW-5
E-93DMS

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Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride and Sulfate, EPA Method 310.2 for Alkalinity, EPA Method 350.1 for Ammonia as Nitrogen, EPA Method 351.2 for Total Kjeldahl Nitrogen as Nitrogen, EPA Method 353.2 for Nitrate as Nitrogen, and EPA Method 415.1 for Total Organic Carbon.

This review follows the Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (September 2005) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Concentration	Associated Samples
MB	Total kjeldahl nitrogen as N	0.120 mg/L	All samples in SDG 6371
ICB/CCB1	Total kjeldahl nitrogen as N	0.139 mg/L	E-93D MW-14A MW-5
ICB/CCB2	Total kjeldahl nitrogen as N	0.125 mg/L	MW-4

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
E-93D	Total kjeldahl nitrogen as N	0.16 mg/L	0.16U mg/L
MW-14A	Total kjeldahl nitrogen as N	0.44 mg/L	0.44U mg/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
MW-5	Total kjeldahl nitrogen as N	0.15 mg/L	0.15U mg/L
MW-4	Total kjeldahl nitrogen as N	0.32 mg/L	0.32U mg/L

Sample "FIELD BLANK" was identified as a field blank. No contaminant concentrations were found in this blank with the following exceptions:

Field Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
FIELD BLANK	6/7/07	Ammonia as N Chloride Alkalinity	0.037 mg/L 0.36 mg/L 10.4 mg/L	All samples in SDG 6371

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
E-93D	Ammonia as N	0.019 mg/L	0.019U mg/L
MW-4	Ammonia as N	0.038 mg/L	0.038U mg/L
MW-5	Ammonia as N	0.078 mg/L	0.078U mg/L

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
FIELD BLANKMS (All samples in SDG 6371)	Nitrate as N	125 (80-120)	J (all detects)	A

V. Duplicates

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Wet Chemistry - Data Qualification Summary - SDG 6371

SDG	Sample	Analyte	Flag	A or P	Reason
6371	E-93D MW-14A MW-4 MW-5	Nitrate as N	J (all detects)	A	Matrix spike analysis (%R)

Muskego OLF
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 6371

SDG	Sample	Analyte	Modified Final Concentration	A or P
6371	E-93D	Total kjeldahl nitrogen as N	0.16U mg/L	A
6371	MW-14A	Total kjeldahl nitrogen as N	0.44U mg/L	A
6371	MW-5	Total kjeldahl nitrogen as N	0.15U mg/L	A
6371	MW-4	Total kjeldahl nitrogen as N	0.32U mg/L	A

Muskego OLF
Wet Chemistry - Field Blank Data Qualification Summary - SDG 6371

SDG	Sample	Analyte	Modified Final Concentration	A or P
6371	E-93D	Ammonia as N	0.019U mg/L	A
6371	MW-4	Ammonia as N	0.038U mg/L	A
6371	MW-5	Ammonia as N	0.078U mg/L	A

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: E-93D

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: 6371

Matrix (soil/water): WATER Lab Sample ID: A7637101

% Solids: 0.0 Date Samp/Recv: 06/07/2007 06/08/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.019		J		350.1	06/11/2007
Chloride	MG/L	188				300.0	06/13/2007
Nitrate	MG/L-N	0.050	U			353.2	06/08/2007
Sulfate	MG/L	36.8				300.0	06/11/2007
Total Alkalinity	MG/L	565				310.2	06/09/2007
Total Kjeldahl Nitrogen	MG/L-N	0.16		J		351.2	06/21/2007
Total Organic Carbon	MG/L	2.0				415.1	06/13/2007

Comments:

lw071307

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: MW-14A

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.: 6371

Matrix (soil/water): WATER Lab Sample ID: A7637103

% Solids: 0.0 Date Samp/Recv: 06/07/2007 06/08/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.35				350.1	06/11/2007
Chloride	MG/L	178				300.0	06/13/2007
Nitrate	MG/L-N	0.050	U			353.2	06/08/2007
Sulfate	MG/L	24.7				300.0	06/11/2007
Total Alkalinity	MG/L	557				310.2	06/09/2007
Total Kjeldahl Nitrogen	MG/L-N	0.44		U		351.2	06/21/2007
Total Organic Carbon	MG/L	3.3				415.1	06/13/2007

Comments:

4407/307

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: MW-4

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.: 6371

Matrix (soil/water): WATER Lab Sample ID: A7637106

% Solids: 0.0 Date Samp/Recv: 06/07/2007 06/08/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.038		U		350.1	06/11/2007
Chloride	MG/L	187				300.0	06/13/2007
Nitrate	MG/L-N	0.050	U			353.2	06/08/2007
Sulfate	MG/L	19.1				300.0	06/11/2007
Total Alkalinity	MG/L	626				310.2	06/09/2007
Total Kjeldahl Nitrogen	MG/L-N	0.32		U		351.2	06/21/2007
Total Organic Carbon	MG/L	3.0				415.1	06/13/2007

Comments:

6/14/07

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: MW-5

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: SDG No.: 6371

Matrix (soil/water): WATER Lab Sample ID: A7637105

% Solids: 0.0 Date Samp/Recv: 06/07/2007 06/08/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.078		U		350.1	06/11/2007
Chloride	MG/L	171				300.0	06/13/2007
Nitrate	MG/L-N	0.050	U			353.2	06/08/2007
Sulfate	MG/L	41.0				300.0	06/11/2007
Total Alkalinity	MG/L	513				310.2	06/09/2007
Total Kjeldahl Nitrogen	MG/L-N	0.15		J	U	351.2	06/21/2007
Total Organic Carbon	MG/L	1.3				415.1	06/13/2007

Comments:

6/26/07

LDC #: 17077B6 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/11/07

SDG #: 6371 Level IV Page: 1 of 1

Laboratory: Severn Trent Laboratories, Inc. Reviewer: MM

2nd Reviewer: AMA

METHOD: (Analyte) Alkalinity (EPA Method 310.2), Ammonia (EPA Method 350.1), Chloride & Sulfate (EPA Method 300.0), Nitrate (EPA Method 353.2), TKN (EPA Method 351.2), TOC (EPA Method 415.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/7/07
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	SW	
IV	Matrix Spike/Matrix Spike Duplicates	SW	MS only
V	Duplicates	N	client specified
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	SW	FB = FIELD BLANK (Trip BLK)

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All

1	E-93D	11		21		31	
2	MW-14A	12		22		32	
3	MW-4	13		23		33	
4	MW-5	14		24		34	
5	E-93D MS	15		25		35	
6	MD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 170776
SDG #: 6371

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MH
2nd Reviewer: GMM

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix Spike/Matrix Spike Duplicate				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.			✓	
V. Laboratory Control Sample				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 1707736
SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MY
2nd Reviewer: MA

Validation Area	Yes	No	NA	Findings/Comments
[illegible]				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC #: 19077B6
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: MY
2nd reviewer: AA

All circled methods are applicable to each sample.

Sample ID	Parameter
1-4	pH TDS (Cl) F (NO3) NO2 (SO4) PO4 (ALK) CN (NH3) (TKN) (TOC) CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
5	pH TDS (Cl) F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+ ____ ____ ____ ____

Comments: _____

LDC #: 170786
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: MH
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
(Y) N N/A Were all samples associated with a given method blank?
(N) N N/A Were any inorganic contaminants detected above the reporting limit in the method blanks? If yes, please see qualifications below.

Conc. units: ug/L

Associated Samples: MB: All, ~~TCB/CCB All~~ TKN#1 = 1,2,4, TKN#2 = 3

Analyte	Blank ID	Maximum ICB/CCB	Blank Action Limit	Sample Identification								
	MB			1	2	~~3~~	4	3				
TKN#1	0.120	0.139	0.695	0.16	0.44	~~0.15~~	~~0.33~~ 0.15					
TKN#2	0.120	0.125	0.625					0.32				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the methoc blank concentration were qualified as not detected, "U".

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LDC #: 17077B6
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Inorganics, EPA Method see comm

(Y) N N/A Were field blanks identified in this SDG?
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L **Associated sample units:** mg/L
Sampling date: 6/7/17 Soil factor applied
Field blank type: (circle one) Field Blank / Rinsate / Other: FB Associated Samples: All

Analyte	Blank ID	Blank Action Limit	Sample Identification									
	FIELD BLANK		1	3	4							
NH_3-N	0.037	0.185	0.019	0.038	0.078							
cl	0.36	1.8										
Alk	10.4	52										

Blank units: Associated sample units:
Sampling date: Soil factor applied
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples:

Analyte	Blank ID	Blank Action Limit	Sample Identification									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

FBLKASC.6

16

LDC #: 17077 B6
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Matrix Spike Analysis

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of ~~75-125~~ (85-115% for Method 300.0)? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. 80-120

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Matrix Spike ID	Matrix	Analyte	%R	Associated Samples	Qualifications
1	FIELD BLANK	A2	NO3-N	125	All	J [illegible] /A

Comments:

MS.6

197

LDC #: 19077 B6
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MY
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

The correlation coefficient (r) for the calibration of Alk was recalculated. Calibration date: 6/18/07

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		conc. (mg/L) (units)	Response (units)	Recalculated r or %R	Reported r or %R	Acceptable (Y/N)
Initial calibration	Alk	Blank			Y=0.9998x	Y=0.99978	Y
Calibration verification		Standard 1	5	-0.048			
		Standard 2	10	-0.051			
		Standard 3	25	-0.061			
		Standard 4	50	-0.098			
		Standard 5	75	-0.096			
		Standard 6	100	-0.114			
		Standard 7					
Calibration verification ccv	SO4	20	19.62		98.1	98.1	Y
Calibration verification ccv (lcs)	NH3-N	0.75	0.705		94	93.9	Y
Calibration verification ccv	TOC	60	57.6		96	96	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17077B6
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found / True x 100 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| / (S+D)/2 x 100 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	TKN	2.34	2.50	94	102	Y
FIELD BLANK	Matrix spike sample	NO3N	(SSR-SR) 1.46	1.0	125	125	↓
VA	Duplicate sample						↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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LDC #: 19077B6
SDG #: 6371

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MM
2nd reviewer: BMB

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for / reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation:

$Cl = (6.35/X \times 10^{-6} * Area + 0.2552) \times DF$

$Cl = (6.35/X \times 10^{-6} * 874169 + 0.2552) \times 5 = 2187.8 mg/L$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
1	1	NH_3-N	0.019	0.019	Y
		Cl	188	188	
		SO4	36.8	36.8	
		Alk	565	564	
		TKN	0.16	0.16	
		TOC	2.0	2.1	

Note:

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

RMT, Inc.
744 Heartland Trail
Madison, WI 53717
ATTN: Mr. Greg Graf

August 15, 2007

SUBJECT: Muskego OLF, Data Validation

Dear Mr. Graf,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on August 6, 2007. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 17240:

SDG #	Fraction
A07-7806	Dissolved Metals, Wet Chemistry

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI, April 2007
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Ming Hwa Hwang

Ming-Hwa Hwang
Project Manager/Senior Chemist

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RTC Selected Samples

LDC #17240 (RMT, Inc.-Madison, WI / Muskego OLF)

LDC	SDG#	DATE REC'D	(3) DATE DUE	Diss. Metals (SW846)		Alk. (310.2)		NH_3 (350.1)		Cl,SO_4 (300.0)		NO_3 (353.2)		TKN (351.2)		TOC (415.1)															
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	A07-7806	08/06/07	08/27/07	4	0	4	0	4	0	4	0	4	0	4	0	4	0														
Total	B/MH			4	0	4	0	4	0	4	0	4	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28

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ıded cells indicate Level IV validation (all other cells are Level II validation). These sample cou ıot include MS/MSD, and DUPs

Muskego OLF
Data Validation Reports
LDC# 17240

Dissolved Metals

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: July 12, 2007

LDC Report Date: August 15, 2007

Matrix: Water

Parameters: Dissolved Metals

Validation Level: EPA Level IV

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): A07-7806

Sample Identification

MW-11A
PC64C
E141A
MW-09
PC64CMS
PC64CMSD

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Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Dissolved Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (April 2007) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
PC64CMS/MSD (All samples in SDG A07-7806)	Potassium	136 (75-125)	139 (75-125)	-	J (all detects)	A

VI. Duplicate Sample Analysis

Duplicate sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

All internal standard percent recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standard	%R (Limits)	Analyte	Flag	A or P
PC64C	Scandium-45	129.348 (30-120)	Beryllium	J (all detects) UJ (all non-detects)	A

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met.

XI. Sample Result Verification

All sample result verifications were acceptable.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Dissolved Metals - Data Qualification Summary - SDG A07-7806

SDG	Sample	Analyte	Flag	A or P	Reason
A07-7806	MW-11A PC64C E141A MW-09	Potassium	J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
A07-7806	PC64C	Beryllium	J (all detects) UJ (all non-detects)	A	Internal standards (%R)

Muskego OLF
Dissolved Metals - Laboratory Blank Data Qualification Summary - SDG A07-7806

No Sample Data Qualified in this SDG

Muskego OLF
Dissolved Metals - Field Blank Data Qualification Summary - SDG A07-7806

No Sample Data Qualified in this SDG

STL BUFFALO

Waste Management

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** A07-7806 **Method Type:**

Sample ID: A7780604 **Client ID:** MW-11A

Matrix: WATER **Date Received:** 7/13/2007 **Date Collected:** 7/12/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B11121 **Prep Date:** 7/20/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Time	Instrument	Run	M
Aluminum		**4000**	**ug/L**			**200**	200	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	7/20/2007	15:29:43	ELAN-ICPMS	E072007A	M
Barium		**23.1**	**ug/L**			**5.0**	5.0	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Calcium		**8730**	**ug/L**			**5000**	5000	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Chromium		**7.4**	**ug/L**			**5.0**	5.0	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Beryllium		**0.22**	**ug/L**			**0.20**	0.20	1	**7/23/2007**	**19:43:53**	ELAN-ICPMS	E072307B	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	15:29:43	ELAN-ICPMS	E072007A	M
Iron		**3270**	**ug/L**			**60.0**	60.0	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Magnesium	<	5000	ug/L	U		5000	5000	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Manganese		**49.6**	**ug/L**			**15.0**	15.0	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Potassium	<	5000	ug/L	U	N	5000	5000	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	7/24/2007	18:24:57	LEEMAN PS2	H07247SW	CV
Silver	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Sodium		**94800**	**ug/L**			**5000**	5000	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Vanadium		**9.8**	**ug/L**			**5.0**	5.0	1	**7/20/2007**	**20:43**	SUPERTRACE	2072007	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	7/20/2007	20:43	SUPERTRACE	2072007	P
Lead		**1.54**	**ug/L**			**1.50**	1.50	1	**7/20/2007**	**15:29:43**	ELAN-ICPMS	E072007A	M
Antimony		**0.79**	**ug/L**			**0.50**	0.50	1	**7/20/2007**	**15:29:43**	ELAN-ICPMS	E072007A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	7/20/2007	15:29:43	ELAN-ICPMS	E072007A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	7/20/2007	15:29:43	ELAN-ICPMS	E072007A	M

Comments:

STL BUFFALO

Waste Management

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** A07-7806 **Method Type:**

Sample ID: A7780605 **Client ID:** P64C

Matrix: WATER **Date Received:** 7/13/2007 **Date Collected:** 7/12/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B11121 **Prep Date:** 7/20/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Analytical Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M
Barium		**114**	**ug/L**			**5.0**	5.0	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Calcium		**96600**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Beryllium	<	0.20	ug/L	U	UJ	0.20	0.20	1	7/31/2007	11:16:10	ELAN-ICPMS	E073107A	M
Chromium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M
Iron		**1890**	**ug/L**			**60.0**	60.0	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Magnesium		**50800**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Manganese		**43.9**	**ug/L**			**15.0**	15.0	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Potassium	<	5000	ug/L	U	N	5000	5000	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	7/19/2007	14:13:25	LEEMAN PS2	207197SD	CV
Silver	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Sodium		**57900**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**20:48**	SUPERTRACE	2072007	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	7/20/2007	20:48	SUPERTRACE	2072007	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	7/20/2007	15:34:17	ELAN-ICPMS	E072007A	M

Comments:

Lun 8/5/07

STL BUFFALO

Waste Management

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** A07-7806 **Method Type:**

Sample ID: A7780606 **Client ID:** E141A

Matrix: WATER **Date Received:** 7/13/2007 **Date Collected:** 7/12/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B11121 **Prep Date:** 7/20/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Barium		**57.4**	**ug/L**			**5.0**	5.0	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Calcium		**159000**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Iron		**487**	**ug/L**			**60.0**	60.0	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Magnesium		**49700**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Manganese		**408**	**ug/L**			**15.0**	15.0	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Potassium	<	5000	ug/L	U	N	5000	5000	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	7/19/2007	14:18:58	LEEMAN PS2	207197SD	CV
Silver	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Sodium		**42700**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:26**	SUPERTRACE	2072007	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	7/20/2007	21:26	SUPERTRACE	2072007	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	7/20/2007	16:11:07	ELAN-ICPMS	E072007A	M

Comments:

Hw08150

STL BUFFALO

Waste Management

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Waste Management **SDG No.:** A07-7806 **Method Type:**

Sample ID: A7780607 **Client ID:** MW-09

Matrix: WATER **Date Received:** 7/13/2007 **Date Collected:** 7/12/2007 **Level:** LOW

% Solids: **Sample Wt/Vol:** 50.0 **Final Vol:** 50.0

Prep Batch ID: A7B11121 **Prep Date:** 7/20/2007

Analyte		Concentration	Units	C	Qual	RL	RL	Dil	Analytical Date	Time	Instrument	Run	M
Aluminum	<	200	ug/L	U		200	200	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Arsenic	<	5.00	ug/L	U		5.00	5.00	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M
Barium		**126**	**ug/L**			**5.0**	5.0	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Calcium		**74300**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Chromium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Beryllium	<	0.20	ug/L	U		0.20	0.20	1	7/23/2007	19:53:00	ELAN-ICPMS	E072307B	M
Cobalt	<	8.0	ug/L	U		8.0	8.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Copper	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Iron		**801**	**ug/L**			**60.0**	60.0	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Cadmium	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M
Magnesium		**62300**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Manganese		**318**	**ug/L**			**15.0**	15.0	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Nickel	<	12.0	ug/L	U		12.0	12.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Potassium	<	5000	ug/L	U	N	5000	5000	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Mercury	<	0.200	ug/L	U		0.200	0.200	1	7/19/2007	14:20:26	LEEMAN PS2	207197SD	CV
Silver	<	10.0	ug/L	U		10.0	10.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Sodium		**94700**	**ug/L**			**5000**	5000	**1**	**7/20/2007**	**21:31**	SUPERTRACE	2072007	P
Vanadium	<	5.0	ug/L	U		5.0	5.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Zinc	<	20.0	ug/L	U		20.0	20.0	1	7/20/2007	21:31	SUPERTRACE	2072007	P
Lead	<	1.50	ug/L	U		1.50	1.50	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M
Antimony	<	0.50	ug/L	U		0.50	0.50	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M
Selenium	<	1.00	ug/L	U		1.00	1.00	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M
Thallium	<	2.00	ug/L	U		2.00	2.00	1	7/20/2007	16:15:44	ELAN-ICPMS	E072007A	M

Comments:

MW08107

LDC #: 17240A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/14.7
SDG #: A07-7806 Level IV Page: 1 of 1
Laboratory: Severn Trent Laboratories, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Dissolved Metals (EPA SW 846 Method 6010B/6020/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/12/07
II.	Calibration	A	
III.	Blanks	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	SW	3 MS / MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	SW	
IX.	Furnace Atomic Absorption QC	N	Not Within
X.	ICP Serial Dilution	A	
XI.	Sample Result Verification	A	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All

1	MW-11A	11		21		31	
2	PC64C	12		22		32	
3	E141A	13		23		33	
4	MW-09	14		24		34	
5	PC64CMS	15		25		35	
6	PC64CMSD	16		26		36	
7	PB	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 19740A4
SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MM
2nd Reviewer: [illegible]

Method: Metals (EPA SW 846 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. ICP interference check samples				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
V. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VI. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	

LDC #: 17260A4
SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 4
Reviewer: JM
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VIII. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?	✓			7100 Alum for 24/MS
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
IX. Internal Standards				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?		✓		
If the %Rs were outside the criteria, was a reanalysis performed?	✓			
X. Performance Evaluation				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XI. Target Compound Identification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. Overall Assessment				
Overall assessment of data was found to be acceptable.	✓			
XIII. Field Duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XIV. Field Blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 19460A4
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MH
2nd reviewer:

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-4	A2	(Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn) Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
MS-6	A2	(Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn) Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP Trace		(Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn) Mo, B, Si, CN, ___ ___
ICP-MS		(Al, Sb, As, Ba, Be, Cd) Ca, Cr, Co, Cu, Fe, (Pb) Mg, Mn, Hg, Ni, K, (Se) Ag, Na, (Tl) V, Zn, Mo, B, Si, CN, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN.

Comments: Mercury by CVAA if performed

LDC #: 19240A4
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: MM
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	5/6	Aq	K	136	139		All	J L+ /A

Comments:

220

LDC #: 17240A4
SDG #: Cal cover

VALIDATION FINDINGS WORKSHEET
Internal Standards (ICP-MS)

Page: 1 of 1
Reviewer: HH
2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6020)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard percent recoveries within 30-120% of the intensity of the internal standard in the initial calibration standard ?

(Y) N N/A If the response to either of the above questions is no, were the samples reanalyzed as required ?

#	Internal Standard	Associated Metals	%R (Limits)	Associated Samples	Qualifications
1	Sc^{45}	Be	129.348	2	J/UJ/A
2	↓	↓	129.204	5	No qual (AC)
3	↓	↓	130.527	6	↓

INTST.4S2

221

LDC #: 12404
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Cu	36.2	375	97	97	Y
↓	~~GFAA~~ (Initial calibration) ICP/MS	Cd	25.41	25.0	102	102	↓
↓	CVAA (Initial calibration)	Hg	3.15	3.0	105	105	↓
CCV	ICP (Continuing calibration)	Mg	24584	25000	98	98	↓
↓	~~GFAA~~ (Continuing calibration) ICP/MS	Be	26.03	25.0	104	104	↓
↓	CVAA (Continuing calibration)	Hg	2.04	2.0	102	102	↓
	Cyanide (Initial calibration)						
	Cyanide (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCLC.4SW

LDC #: 19740A4
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MR
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recaluculated using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Co	453.4	500	91	91	Y
LCS	Laboratory control sample	Ni	196.6	200	98	98	↓
5	Matrix spike	V	(SSR-SR) 196.5	200	98	98	↓
5/6	Duplicate	Tl	20.3	20.1	1	1	↓
2	ICP serial dilution	Ca	97.945	98.56	1	1	↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17240A4
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MD
2nd reviewer: K

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)(\%S)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Recalculation:

From raw data

Cr = 0.00736 mg/L = 7.36 ug/L

Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
X 1	Al	4010	4000	Y
	Ba	23.1	23.1	
	Ca	8730	8730	
	Cr	7.4	7.4	
	Be	0.22	X 0.22	
	Fe	3270	3270	
	Mn	49.6	49.6	
	Na	94800	94800	
	V	9.8	9.8	
	Pb	1.54	1.54	
	Sb	0.79	0.79	

RECALC.4S2

Muskego OLF
Data Validation Reports
LDC# 17240

Wet Chemistry

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: July 12, 2007

LDC Report Date: August 15, 2007

Matrix: Water

Parameters: Wet Chemistry

Validation Level: EPA Level IV

Laboratory: Severn Trent Laboratories

Sample Delivery Group (SDG): A07-7806

Sample Identification

MW-11A
PC64C
E141A
MW-09
PC64CMS
PC64CMSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Chloride and Sulfate, EPA Method 310.2 for Alkalinity, EPA Method 350.1 for Ammonia as Nitrogen, EPA Method 351.2 for Total Kjeldahl Nitrogen as Nitrogen, EPA Method 353.2 for Nitrate as Nitrogen, and EPA Method 415.1 for Total Organic Carbon.

This review follows the Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (April 2007) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Concentration	Associated Samples
MB	Ammonia as N	0.0092 mg/L	All samples in SDG A07-7806
MB	Total kjeldahl nitrogen as N	0.12 mg/L	PC64C
ICB/CCB	Ammonia as N	0.0131 mg/L	All samples in SDG A07-7806

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
PC64C	Total kjeldahl nitrogen as N	0.47 mg/L	0.47U mg/L

No field blanks were identified in this SDG.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Wet Chemistry - Data Qualification Summary - SDG A07-7806

No Sample Data Qualified in this SDG

Muskego OLF
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG A07-7806

SDG	Sample	Analyte	Modified Final Concentration	A or P
A07-7806	PC64C	Total kjeldahl nitrogen as N	0.47U mg/L	A

Muskego OLF
Wet Chemistry - Field Blank Data Qualification Summary - SDG A07-7806

No Sample Data Qualified in this SDG

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: MW-11A

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: A7780604

% Solids: 0.0 Date Samp/Recv: 07/12/2007 07/13/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.27				350.1	07/16/2007
Chloride	MG/L	9.9				300.0	07/17/2007
Nitrate	MG/L-N	0.050	U			353.2	07/13/2007
Sulfate	MG/L	34.0				300.0	07/20/2007
Total Alkalinity	MG/L	195				310.2	07/15/2007
Total Kjeldahl Nitrogen	MG/L-N	0.29				351.2	07/19/2007
Total Organic Carbon	MG/L	5.1				415.1	07/15/2007

Comments:

Hu 08/15/07

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: P64C

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: A7780605

% Solids: 0.0 Date Samp/Recv: 07/12/2007 07/13/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.30				350.1	07/16/2007
Chloride	MG/L	56.2				300.0	07/17/2007
Nitrate	MG/L-N	0.050	U			353.2	07/13/2007
Sulfate	MG/L	55.3				300.0	07/17/2007
Total Alkalinity	MG/L	479				310.2	07/15/2007
Total Kjeldahl Nitrogen	MG/L-N	0.47		U		351.2	07/24/2007
Total Organic Carbon	MG/L	1.3				415.1	07/15/2007

Comments:

Hu08/07

Muskego, WI
Wet Chemistry Analysis

Client Sample No.

E141A

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: A7780606

% Solids: 0.0 Date Samp/Recv: 07/12/2007 07/13/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.18				350.1	07/16/2007
Chloride	MG/L	105				300.0	07/17/2007
Nitrate	MG/L-N	0.044				353.2	07/13/2007
Sulfate	MG/L	143				300.0	07/17/2007
Total Alkalinity	MG/L	450				310.2	07/15/2007
Total Kjeldahl Nitrogen	MG/L-N	0.17		J		351.2	07/19/2007
Total Organic Carbon	MG/L	1.6				415.1	07/15/2007

Comments:

14408/507

Muskego, WI
Wet Chemistry Analysis

Client Sample No.: MW-09

Lab Name: STL Buffalo Contract: MASTER

Lab Code: RECNY Case No.: F SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: A7780607

% Solids: 0.0 Date Samp/Recv: 07/12/2007 07/13/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonia	MG/L-N	0.20				350.1	07/16/2007
Chloride	MG/L	277				300.0	07/17/2007
Nitrate	MG/L-N	0.050	U			353.2	07/13/2007
Sulfate	MG/L	28.1				300.0	07/17/2007
Total Alkalinity	MG/L	309				310.2	07/15/2007
Total Kjeldahl Nitrogen	MG/L-N	0.15		J		351.2	07/19/2007
Total Organic Carbon	MG/L	1.8				415.1	07/15/2007

Comments:

LDC #: 17240A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/14/07
SDG #: A07-7806 Level IV Page: 1 of 1
Laboratory: Severn Trent Laboratories, Inc. Reviewer: W
2nd Reviewer: Q

METHOD: (Analyte) Alkalinity (EPA Method 310.2), Ammonia (EPA Method 350.1), Chloride & Sulfate (EPA Method 300.0), Nitrate (EPA Method 353.2), TKN (EPA Method 351.2), TOC (EPA Method 415.1)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/12/07
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	SW	
IV	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD
V	Duplicates	N	
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: All

1	MW-11A	11		21		31	
2	PC64C	12		22		32	
3	E141A	13		23		33	
4	MW-09	14		24		34	
5	PC64CMS	15		25		35	
6	PC64CMSD	16		26		36	
7	MB	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 19460A6
SDG #: Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: MM
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. Matrix Spike/Matrix Spike Duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 19240 A6
SDG #: [illegible]

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: MM
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 19404A6
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Page: 1 of 1
Reviewer: MM
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Parameter
1-4	pH TDS (Cl) F (NO3) NO2 (SO4) PO4 (ALK) CN (NH3) (TKN) (TOC) CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
5-6	pH TDS Cl F (NO3) NO2 SO4 PO4 (ALK) CN (NH3) (TKN) (TOC) CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+
	pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN NH3 TKN TOC CR6+

Comments:

LDC #: 17460A6
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: MH
2nd Reviewer:

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
(Y) N N/A Were all samples associated with a given method blank?
(Y) N N/A Were any inorganic contaminants detected above the reporting limit in the method blanks? If yes, please see qualifications below.

Conc. units: mg/L Associated Samples: NH_3-N = #1 TKN-N = #2

Analyte	Blank ID	Maximum ICB/CCB	Blank Action Limit	Sample Identification								
	MB			2								
NH_3-N	02096	0.0131	0.065									
TKN-N	0.12		0.60	0.47								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the methoc blank concentration were qualified as not detected, "U".

LDC #: 19440A6
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MM
2nd Reviewer:

METHOD: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of AM was recalculated. Calibration date: 7/12/17

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		conc. (ug/L) (units)	resp. (units)	Recalculated r or %R	Reported r or %R	Acceptable (Y/N)
Initial calibration	AM	Blank			r = 0.999108	r = 0.999857	Y
Calibration verification		Standard 1	5	-0.5			
		Standard 2	10	-0.053			
		Standard 3	25	-0.063			
		Standard 4	50	-0.286			
		Standard 5	75	-0.104			
		Standard 6	100	-0.122			
		Standard 7					
Calibration verification CCV	SO4	20	19.64		98.2	NR	Y
Calibration verification CCV	NH3-N	0.75	0.7310		97.5	↓	↓
Calibration verification CCV	TKN	2.5	2.505		100.2	↓	↓

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCLC.6

LDC #: 19440A6
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MM
2nd Reviewer:

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found / True x 100 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| / (S+D)/2 x 100 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	Cl	18.59	20	93	93	Y
S	Matrix spike sample	NO_3-N	(SSR-SR) 0.948	1.00	95	95	↓
S/6	Duplicate sample	TOC	19.78	19.86	2	3	↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

LDC #: 17240A6
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MH
2nd reviewer: [illegible]

METHOD: *Inorganics, Method* See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for 3 reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation:

$SO_4 = (8.634 \times 10^{-6} \times Area + 0.1497) \times DF$ = $SO_4 = (3296457 \times 8.634 \times 10^{-6} + 0.1497) \times 5 = 143.0$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
1	3	NH_3-N	0.18	0.18	Y
		Cl	105	105	
		NO_3-N	0.044	0.044	
		SO_4	143	143	
		Alk	450	450	
		TKN-N	0.17	0.17	
		TOC	1.6	1.60	

Note:

RECALC.6

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

RMT, Inc.
744 Heartland Trail
Madison, WI 53717
ATTN: Mr. Greg Graf

August 15, 2007

SUBJECT: Muskego OLF, Data Validation

Dear Mr. Graf,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on August 8, 2007. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 17260:

SDG #	Fraction
61321, 61417	Volatiles

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI, April 2007
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

Ming-Hwa Hwang
Project Manager/Senior Chemist

RTC Selected Samples

LDC #17260 (RMT, Inc.-Madison, WI / Muskego OLF)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)																									
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	61321	08/09/07	08/23/07	2	0																								
B	61417	08/09/07	08/23/07	2	0																								
Total	L/MH			4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

246

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample cou ıot include MS/MSD, and DUPs

Muskego OLF
Data Validation Reports
LDC# 17260

Volatiles

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: July 9 through July 10, 2007

LDC Report Date: August 14, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CT Laboratories

Sample Delivery Group (SDG): 61321

Sample Identification

CW07
MW15A
MW15AMS
MW15AMSD

249

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (April 2007) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/13/07	Acetone 2-Butanone Tetrahydrofuran	0.021 (≥0.05) 0.039 (≥0.05) 0.026 (≥0.05)	All samples in SDG 53699	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/13/07	Methylene chloride Methyl-tert-butyl ether cis-1,2-Dichloroethene 2-Butanone Bromochloromethane	26.6 25.5 26.7 46.4 27.1	CW07 MW15A Method Blank	J (all detects) UJ (all non-detects)	A
7/14/07	Methylene chloride cis-1,2-Dichloroethene 2-Butanone Bromochloromethane Tetrahydrofuran	61.7 25.3 29.4 27.6 45.8	MW15AMS MW15AMSD	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/13/07	Acetone 2-Butanone Tetrahydrofuran	0.018 (≥0.05) 0.021 (≥0.05) 0.022 (≥0.05)	CW07 MW15A Method Blank	J (all detects) UJ (all non-detects)	A
7/14/07	Acetone 2-Butanone Tetrahydrofuran	0.020 (≥0.05) 0.028 (≥0.05) 0.014 (≥0.05)	MW15AMS MW15AMSD	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
Method Blank	7/13/06	Methylene chloride	0.314 ug/L	All samples in SDG 61321

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

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Sample	*Compound* TIC (RT in minutes)	*Reported* Concentration	*Modified Final* Concentration
CW07	Methylene chloride	0.34 ug/L	0.34U ug/L
MW15A	Methylene chloride	0.32 ug/L	0.32U ug/L

Sample "Trip Blank" were identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
Trip Blank	7/9/07	Methylene chloride Acetone Chloromethane Ethylbenzene m,p-Xylenes 2-Butanone Tetrahydrofuran	0.41 ug/L 20 ug/L 0.066 ug/L 0.079 ug/L 0.34 ug/L 84 ug/L 110 ug/L	All samples in SDG 61321

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
CW07	Methylene chloride	0.34 ug/L	0.34U ug/L
MW15A	Methylene chloride	0.32 ug/L	0.32U ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) which were not within QC limits are listed below.

Spike ID	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)
MW15AMS/MSD	Bromoform Vinyl acetate Methylene chloride	60 (62-126) 147 (46-137) -	- 138 (46-137) -	- - 32 (≤27)

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
486458LCS	Vinyl acetate	144 (56-132)	All samples in SDG 61321	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Muskego OLF
Volatiles - Data Qualification Summary - SDG 61321

SDG	Sample	Compound	Flag	A or P	Reason
61321	CW07 MW15A	Acetone 2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
61321	CW07 MW15A	Methylene chloride Methyl-tert-butyl ether cis-1,2-Dichloroethene 2-Butanone Bromochloromethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
61321	CW07 MW15A	Acetone 2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
61321	CW07 MW15A	Vinyl acetate	J (all detects)	P	Laboratory control samples (%R)

Muskego OLF
Volatiles - Laboratory Blank Data Qualification Summary - SDG 61321

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
61321	CW07	Methylene chloride	0.34U ug/L	A
61321	MW15A	Methylene chloride	0.32U ug/L	A

Muskego OLF
Volatiles - Field Blank Data Qualification Summary - SDG 61321

SDG	Sample	Compound	Modified Final Concentration	A or P
61321	CW07	Methylene chloride	0.34U ug/L	A
61321	MW15A	Methylene chloride	0.32U ug/L	A

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: CW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485456
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/13/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
74-87-3	Chloromethane	0.050	U	0.050	0.050
74-83-9	Bromomethane	0.070	U	0.070	0.070
75-01-4	Vinyl chloride	0.013	U	0.013	0.013
541-73-1	1,3-Dichlorobenzene	0.027	U	0.027	0.027
75-00-3	Chloroethane	0.070	U	0.070	0.070
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
75-09-2	Methylene chloride	0.34	A,B UJ	0.18	0.18
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.050
67-64-1	Acetone	1.5	U UJ	1.5	1.5
75-15-0	Carbon disulfide	0.090	U	0.090	0.090
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050
75-34-3	1,1-Dichloroethane	0.060	U	0.060	0.060
67-66-3	Chloroform	0.022	U	0.022	0.022
107-06-2	1,2-Dichloroethane	0.030	U	0.030	0.030
78-93-3	2-Butanone	0.60	U UJ	0.60	0.60
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.050
56-23-5	Carbon tetrachloride	0.022	U	0.022	0.022
75-27-4	Bromodichloromethane	0.030	U	0.030	0.030
78-87-5	1,2-Dichloropropane	0.050	U	0.050	0.050
120-82-1	1,2,4-Trichlorobenzene	0.060	U	0.060	0.060
10061-01-5	cis-1,3-Dichloropropene	0.017	U	0.017	0.017
91-20-3	Naphthalene	0.050	U	0.050	0.050
79-01-6	Trichloroethene	0.050	U	0.050	0.050
124-48-1	Dibromochloromethane	0.026	U	0.026	0.026
79-00-5	1,1,2-Trichloroethane	0.060	U	0.060	0.060
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.050
71-43-2	Benzene	0.050	U	0.050	0.050
10061-02-6	trans-1,3-Dichloropropene	0.017	U	0.017	0.017
75-25-2	Bromoform	0.040	U	0.040	0.040
108-10-1	4-Methyl-2-pentanone	0.80	U	0.80	0.80
591-78-6	2-Hexanone	1.6	U	1.6	1.6
127-18-4	Tetrachloroethene	0.050	U	0.050	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U	0.019	0.019

lmo 81507

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: CW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485456
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/13/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
108-88-3	Toluene	0.060	U	0.060	0.060
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.024	U	0.024	0.024
100-42-5	Styrene	0.022	U	0.022	0.022
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050
108-86-1	Bromobenzene	0.070	U	0.070	0.070
74-97-5	Bromochloromethane	0.028	U UJ	0.028	0.028
156-59-2	cis-1,2-Dichloroethene	0.050	U UJ	0.050	0.050
74-95-3	Dibromomethane	0.060	U	0.060	0.060
75-71-8	Dichlorodifluoromethane	0.030	U	0.030	0.030
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040
1634-04-4	Methyl tert-butyl ether	0.080	U UJ	0.080	0.080
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022
95-47-6	o-Xylene	0.023	U	0.023	0.023
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021
109-99-9	Tetrahydrofuran	1.4	U UJ	1.4	1.4
156-60-5	trans-1,2-Dichloroethene	0.060	U	0.060	0.060

MW 8/15/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: CW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485456
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/13/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.14		0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

7/14/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW15A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485466
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/14/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
74-87-3	Chloromethane	0.050	U	0.050	0.050
74-83-9	Bromomethane	0.070	U	0.070	0.070
75-01-4	Vinyl chloride	1.0		0.013	0.013
541-73-1	1,3-Dichlorobenzene	0.027	U	0.027	0.027
75-00-3	Chloroethane	0.64		0.070	0.070
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
75-09-2	Methylene chloride	0.32	A,B,M UJ	0.18	0.18
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.050
67-64-1	Acetone	1.5	U UJ	1.5	1.5
75-15-0	Carbon disulfide	0.090	U	0.090	0.090
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050
75-34-3	1,1-Dichloroethane	0.12		0.060	0.060
67-66-3	Chloroform	0.022	U	0.022	0.022
107-06-2	1,2-Dichloroethane	0.75		0.030	0.030
78-93-3	2-Butanone	0.60	U UJ	0.60	0.60
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.050
56-23-5	Carbon tetrachloride	0.022	U	0.022	0.022
75-27-4	Bromodichloromethane	0.030	U	0.030	0.030
78-87-5	1,2-Dichloropropane	0.050	U	0.050	0.050
120-82-1	1,2,4-Trichlorobenzene	0.060	U	0.060	0.060
10061-01-5	cis-1,3-Dichloropropene	0.017	U	0.017	0.017
91-20-3	Naphthalene	0.080		0.050	0.050
79-01-6	Trichloroethene	0.050	U	0.050	0.050
124-48-1	Dibromochloromethane	0.026	U	0.026	0.026
79-00-5	1,1,2-Trichloroethane	0.060	U	0.060	0.060
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.050
71-43-2	Benzene	0.050	U	0.050	0.050
10061-02-6	trans-1,3-Dichloropropene	0.017	U	0.017	0.017
75-25-2	Bromoform	0.040	U M	0.040	0.040
108-10-1	4-Methyl-2-pentanone	0.80	U	0.80	0.80
591-78-6	2-Hexanone	1.6	U	1.6	1.6
127-18-4	Tetrachloroethene	0.050	U	0.050	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U	0.019	0.019

MW 8/15/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW15A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485466
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/14/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q		LOD	RL
108-88-3	Toluene	0.092			0.060	0.060
108-90-7	Chlorobenzene	0.040	U		0.040	0.040
100-41-4	Ethylbenzene	0.024	U		0.024	0.024
100-42-5	Styrene	0.022	U		0.022	0.022
1330-20-7	m & p-Xylene	0.080	U		0.080	0.080
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U		0.050	0.050
563-58-6	1,1-Dichloropropene	0.040	U		0.040	0.040
87-61-6	1,2,3-Trichlorobenzene	0.070	U		0.070	0.070
96-18-4	1,2,3-Trichloropropane	0.030	U		0.030	0.030
95-63-6	1,2,4-Trimethylbenzene	0.027	U		0.027	0.027
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U		0.050	0.050
106-93-4	1,2-Dibromoethane	0.050	U		0.050	0.050
108-67-8	1,3,5-Trimethylbenzene	0.024	U		0.024	0.024
142-28-9	1,3-Dichloropropane	0.070	U		0.070	0.070
594-20-7	2,2-Dichloropropane	0.030	U		0.030	0.030
95-49-8	2-Chlorotoluene	0.040	U		0.040	0.040
106-43-4	4-Chlorotoluene	0.050	U		0.050	0.050
108-86-1	Bromobenzene	0.070	U		0.070	0.070
74-97-5	Bromochloromethane	0.028	U	UJ	0.028	0.028
156-59-2	cis-1,2-Dichloroethene	1.4		A J	0.050	0.050
74-95-3	Dibromomethane	0.060	U		0.060	0.060
75-71-8	Dichlorodifluoromethane	0.53			0.030	0.030
108-20-3	Diisopropyl ether	0.060	U		0.060	0.060
98-82-8	Isopropylbenzene	0.040	U		0.040	0.040
1634-04-4	Methyl tert-butyl ether	0.080	U	UJ	0.080	0.080
104-51-8	n-Butylbenzene	0.022	U		0.022	0.022
103-65-1	n-Propylbenzene	0.022	U		0.022	0.022
95-47-6	o-Xylene	0.023	U		0.023	0.023
99-87-6	p-Isopropyltoluene	0.040	U		0.040	0.040
135-98-8	sec-Butylbenzene	0.019	U		0.019	0.019
98-06-6	tert-Butylbenzene	0.021	U		0.021	0.021
109-99-9	Tetrahydrofuran	1.4	U	UJ	1.4	1.4
156-60-5	trans-1,2-Dichloroethene	0.060	U		0.060	0.060

lmw8/15/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description

MW15A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61321
Sample wt/vol:	(g/mL)	CTL Sample ID:	485466
% Solids:		Date Received:	07/11/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/14/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	- - - - - - Trichlorofluoromethane	0.26		0.060	0.060
108-05-4	- - - - - - Vinyl acetate	0.22	U	0.22	0.22

(4.08.07)

LDC #: 17260A1
SDG #: 61321
Laboratory: CT Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 8/13/07
Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/09 - 10/07
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	%RSD r²
IV.	Continuing calibration ICV	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	TB = Trip Blank

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Water

1†	CW07	11		21		31	
2†	MW15A	12		22		32	
3	MW15A MS	13		23		33	
4	MW15A MSD	14		24		34	
5†	Method Blank	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

.DC #: 17260 A1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JNG
2nd Reviewer: LM

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical Holding Times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix Spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

DC #: 17260 A1
DG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JG
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
[illegible]				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

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TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl chloride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL. Tetrahydrofuran

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Reviewer: JVZ
2nd Reviewer: MM

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
(Y) N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
(Y) N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? r² ≥ 0.99
(Y) N N/A Did the initial calibration meet the acceptance criteria?
Y (N) N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: <30.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	7/13/07	ICAL	F		0.021	All + Blk	J/UJ/A
			M		0.039	↓	↓
			LLL		0.026		

JVZ

LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: MM

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
(Y) N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	7/13/07	CCV1	E	26.6		1, 2, BLK	J/UJ/A
			LL	25.5			
			QQQ	26.7			
			M	46.4			
			PP	27.1			
			F		0.018		
			M		0.021		
			LLL		0.022		
	7/14/07	CCV2	E (+)	61.7		3, 4	
			QQQ	25.3			
			M	29.4			
			PP	27.6			
			LLL	45.8			
			F		0.020		
			M		0.028		
			LLL		0.014		

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LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVZ
2nd Reviewer: MA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a method blank associated with every sample in this SDG?
(Y) N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
(Y) N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 7/13/07
Conc. units: ug/L
Associated Samples: All

Compound	Blank ID	Sample Identification								
	Method Blank	1	2							
Methylene chloride	0.314		0.34/U	0.32/U						
Acetone										
CRQL										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

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LDC #: 17260 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: NB
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L

Field blank type: (circle one) Field Blank / Rinsate / (Trip Blank) / Other: Associated Samples: All

Compound	Blank ID: Trip Blank	Blank ID	Sample Identification							
Sampling Date	7/09/07		1	2						
Methylene chloride	0.41		0.34/U	0.32/U						
Acetone	20									
Chloroform										
A	0.066									
~~EE~~	0.079									
RRR	0.34									
M	84									
~~CRQL~~ LLL	110									

Blank units: _____ **Associated sample units:** _____

Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples:

Compound	Blank ID	Blank ID	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

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LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		3/4	X	60 (62-126)	( )	( )		Text
			HH	147 (46-137)	138 (46-137)	( )		↓
			E	( )	( )	32 (27)		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 17260 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a LCS required?
Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		486458 LCS	HH	144 (56-132)	( )	( )	All + Blk	J dets /P
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

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LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JTG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF	Recalculated RRF	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/12-13/07	C (1st internal standard)	0.307	0.307	0.312	0.312	6.73	6.76
			EE (2nd internal standard)	2.24	2.24	2.284	2.284	5.62	5.62
			BB (3rd internal standard)	0.420	0.420	0.421	0.421	7.11	7.10
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_is)/(A_is)(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV1		~~Methylene chloride~~ C (1st Internal standard)	0.312	0.333	0.333	6.7	6.7
			~~Trichlorethene~~ EE (2nd Internal standard)	2.384	2.380	2.380	4.2	4.2
			~~Toluene~~ BB (3rd Internal standard)	0.421	0.45✓	0.45✓	7.4	7.4
2			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					
3			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					
4			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

[signature]

LDC #: 17260A1
SDG #: Su Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JNG
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	3.600	3.121	87	87	0
Bromofluorobenzene		3.868	107	107	
1,2-Dichloroethane-d4		3.683	102	102	
Dibromofluoromethane		3.625	101	101	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 17260A1
SDG #: Sg Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = | MSC - MSDC | * 2/(MSC + MSDC) MSC = Matrix spike percent recovery; MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 3/4

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	2.0	2.0	0	2.06	2.16	103	103	104	108	5	5
Trichloroethene	↓	↓	↓	1.94	1.97	97	97	98	98	2	2
Benzene			0 ↓	2.02	1.99	101	101	100	100	1	1
Toluene			0.09	2.07	2.05	99	99	98	98	1	1
Chlorobenzene	↓	↓	0	1.92	2.00	96	96	100	100	4	4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 486458 LCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	2.0	NA	2.15	NA	108	108				
Trichloroethene			2.07		104	104				
Benzene			2.09		104	104				
Toluene			2.12		106	106				
Chlorobenzene	↓	↓	2.13	↓	106	106				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1S

LDC #: 17260A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JVL
2nd reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 2 . C :

Conc. = $\frac{(63471)(4.0)(\quad)}{(79359)(0.317)(\quad)(\quad)}$

= 1.025 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Muskego OLF

Collection Date: July 11 through July 12, 2007

LDC Report Date: August 15, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CT Laboratories

Sample Delivery Group (SDG): 61417

Sample Identification

MW07
E141A

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Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Phase 2 Quality Assurance Project Plan Addendum for Expanded Groundwater Monitoring at Muskego Sanitary Landfill, Muskego, WI (April 2007) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/22/07	2-Butanone	0.045 (≥0.05)	All samples in SDG 61417	J (all detects) UJ (all non-detects)	A
	Tetrahydrofuran	0.028 (≥0.05)		J (all detects) UJ (all non-detects)	

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

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For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
7/23/07	Acetone Tetrahydrofuran	0.042 (≥0.05) 0.027 (≥0.05)	All samples in SDG 61417	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
Method Blank	7/23/06	Methylene chloride Carbon disulfide 1,1,1-Trichloroethane	1.60 ug/L 0.124 ug/L 0.0952 ug/L	All samples in SDG 61417

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

Sample "Trip Blank" were identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
Trip Blank	7/12/07	Methylene chloride	0.30 ug/L	All samples in SDG 61417

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

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Muskego OLF
Volatiles - Data Qualification Summary - SDG 61417

SDG	Sample	Compound	Flag	A or P	Reason
61417	MW07 E141A	2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
61417	MW07 E141A	2-Butanone Tetrahydrofuran	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)

Muskego OLF
Volatiles - Laboratory Blank Data Qualification Summary - SDG 61417

No Sample Data Qualified in this SDG

Muskego OLF
Volatiles - Field Blank Data Qualification Summary - SDG 61417

No Sample Data Qualified in this SDG

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486913
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q		LOD	RL
74-87-3	Chloromethane	0.050	U		0.050	0.050
74-83-9	Bromomethane	0.070	U		0.070	0.070
75-01-4	Vinyl chloride	0.75			0.013	0.013
541-73-1	1,3-Dichlorobenzene	0.027	U		0.027	0.027
75-00-3	Chloroethane	0.070	U		0.070	0.070
106-46-7	1,4-Dichlorobenzene	0.040	U		0.040	0.040
75-09-2	Methylene chloride	0.18	U		0.18	0.18
95-50-1	1,2-Dichlorobenzene	0.050	U		0.050	0.050
67-64-1	Acetone	1.5	U		1.5	1.5
75-15-0	Carbon disulfide	0.090	U		0.090	0.090
75-35-4	1,1-Dichloroethene	0.050	U		0.050	0.050
75-34-3	1,1-Dichloroethane	0.060	U		0.060	0.060
67-66-3	Chloroform	0.022	U		0.022	0.022
107-06-2	1,2-Dichloroethane	0.030	U		0.030	0.030
78-93-3	2-Butanone	0.60	U	UJ	0.60	0.60
71-55-6	1,1,1-Trichloroethane	0.050	U		0.050	0.050
56-23-5	Carbon tetrachloride	0.022	U		0.022	0.022
75-27-4	Bromodichloromethane	0.030	U		0.030	0.030
78-87-5	1,2-Dichloropropane	0.050	U		0.050	0.050
120-82-1	1,2,4-Trichlorobenzene	0.060	U		0.060	0.060
10061-01-5	cis-1,3-Dichloropropene	0.017	U		0.017	0.017
91-20-3	Naphthalene	0.050	U		0.050	0.050
79-01-6	Trichloroethene	0.050	U		0.050	0.050
124-48-1	Dibromochloromethane	0.026	U		0.026	0.026
79-00-5	1,1,2-Trichloroethane	0.060	U		0.060	0.060
87-68-3	Hexachlorobutadiene	0.050	U		0.050	0.050
71-43-2	Benzene	0.050	U		0.050	0.050
10061-02-6	trans-1,3-Dichloropropene	0.017	U		0.017	0.017
75-25-2	Bromoform	0.040	U		0.040	0.040
108-10-1	4-Methyl-2-pentanone	0.80	U		0.80	0.80
591-78-6	2-Hexanone	1.6	U		1.6	1.6
127-18-4	Tetrachloroethene	0.050	U		0.050	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U		0.019	0.019

4408507

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486913
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
108-88-3	Toluene	0.060	U	0.060	0.060
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.024	U	0.024	0.024
100-42-5	Styrene	0.022	U	0.022	0.022
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050
108-86-1	Bromobenzene	0.070	U	0.070	0.070
74-97-5	Bromochloromethane	0.028	U	0.028	0.028
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.050	0.050
74-95-3	Dibromomethane	0.060	U	0.060	0.060
75-71-8	Dichlorodifluoromethane	0.089		0.030	0.030
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040
1634-04-4	Methyl tert-butyl ether	0.080	U	0.080	0.080
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022
95-47-6	o-Xylene	0.023	U	0.023	0.023
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021
109-99-9	Tetrahydrofuran	1.4	U UJ	1.4	1.4
156-60-5	trans-1,2-Dichloroethene	0.060	U	0.060	0.060

MW-8150

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: MW07

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486913
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.060	U	0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

8/14/07

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E141A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486925
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
74-87-3	Chloromethane	0.050	U	0.050	0.050
74-83-9	Bromomethane	0.070	U	0.070	0.070
75-01-4	Vinyl chloride	0.095		0.013	0.013
541-73-1	1,3-Dichlorobenzene	0.027	U	0.027	0.027
75-00-3	Chloroethane	0.072		0.070	0.070
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040
75-09-2	Methylene chloride	0.18	U	0.18	0.18
95-50-1	1,2-Dichlorobenzene	0.050	U	0.050	0.050
67-64-1	Acetone	1.5	U	1.5	1.5
75-15-0	Carbon disulfide	0.090	U	0.090	0.090
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050
75-34-3	1,1-Dichloroethane	1.2		0.060	0.060
67-66-3	Chloroform	1.0		0.022	0.022
107-06-2	1,2-Dichloroethane	0.055		0.030	0.030
78-93-3	2-Butanone	0.60	U UJ	0.60	0.60
71-55-6	1,1,1-Trichloroethane	0.050	U	0.050	0.050
56-23-5	Carbon tetrachloride	0.022	U	0.022	0.022
75-27-4	Bromodichloromethane	0.030	U	0.030	0.030
78-87-5	1,2-Dichloropropane	0.92		0.050	0.050
120-82-1	1,2,4-Trichlorobenzene	0.060	U	0.060	0.060
10061-01-5	cis-1,3-Dichloropropene	0.017	U	0.017	0.017
91-20-3	Naphthalene	0.050	U	0.050	0.050
79-01-6	Trichloroethene	1.7		0.050	0.050
124-48-1	Dibromochloromethane	0.026	U	0.026	0.026
79-00-5	1,1,2-Trichloroethane	0.060	U	0.060	0.060
87-68-3	Hexachlorobutadiene	0.050	U	0.050	0.050
71-43-2	Benzene	0.13		0.050	0.050
10061-02-6	trans-1,3-Dichloropropene	0.017	U	0.017	0.017
75-25-2	Bromoform	0.040	U	0.040	0.040
108-10-1	4-Methyl-2-pentanone	0.80	U	0.80	0.80
591-78-6	2-Hexanone	1.6	U	1.6	1.6
127-18-4	Tetrachloroethene	0.21		0.050	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.019	U	0.019	0.019

4408/509

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E141A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486925
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q	LOD	RL
108-88-3	Toluene	0.060	U	0.060	0.060
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.024	U	0.024	0.024
100-42-5	Styrene	0.022	U	0.022	0.022
1330-20-7	m & p-Xylene	0.080	U	0.080	0.080
630-20-6	1,1,1,2-Tetrachloroethane	0.050	U	0.050	0.050
563-58-6	1,1-Dichloropropene	0.040	U	0.040	0.040
87-61-6	1,2,3-Trichlorobenzene	0.070	U	0.070	0.070
96-18-4	1,2,3-Trichloropropane	0.030	U	0.030	0.030
95-63-6	1,2,4-Trimethylbenzene	0.027	U	0.027	0.027
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U	0.050	0.050
106-93-4	1,2-Dibromoethane	0.050	U	0.050	0.050
108-67-8	1,3,5-Trimethylbenzene	0.024	U	0.024	0.024
142-28-9	1,3-Dichloropropane	0.070	U	0.070	0.070
594-20-7	2,2-Dichloropropane	0.030	U	0.030	0.030
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
106-43-4	4-Chlorotoluene	0.050	U	0.050	0.050
108-86-1	Bromobenzene	0.070	U	0.070	0.070
74-97-5	Bromochloromethane	0.028	U	0.028	0.028
156-59-2	cis-1,2-Dichloroethene	2.0		0.050	0.050
74-95-3	Dibromomethane	0.060	U	0.060	0.060
75-71-8	Dichlorodifluoromethane	0.27		0.030	0.030
108-20-3	Diisopropyl ether	0.060	U	0.060	0.060
98-82-8	Isopropylbenzene	0.040	U	0.040	0.040
1634-04-4	Methyl tert-butyl ether	0.080	U	0.080	0.080
104-51-8	n-Butylbenzene	0.022	U	0.022	0.022
103-65-1	n-Propylbenzene	0.022	U	0.022	0.022
95-47-6	o-Xylene	0.023	U	0.023	0.023
99-87-6	p-Isopropyltoluene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.019	U	0.019	0.019
98-06-6	tert-Butylbenzene	0.021	U	0.021	0.021
109-99-9	Tetrahydrofuran	1.4	U UJ	1.4	1.4
156-60-5	trans-1,2-Dichloroethene	0.21		0.060	0.060

4408150

CT Laboratories

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Description: E141A

Lab Name:	CT Laboratories	Contract:	RMT-EGM PHASE II
Matrix:	GROUND WATER	SDG No.:	61417
Sample wt/vol:	(g/mL)	CTL Sample ID:	486925
% Solids:		Date Received:	07/17/2007
Soil Extract Vol:	(mL)	Date Extracted:	
Analytical Method:	EPA 8260B	Date Analyzed:	07/23/2007
		Dilution Factor:	1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	LOD	RL
75-69-4	Trichlorofluoromethane	0.092		0.060	0.060
108-05-4	Vinyl acetate	0.22	U	0.22	0.22

LDC #: 17260B1
SDG #: 61417
Laboratory: CT Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 8/19/07
Page: 1 of 1
Reviewer: JVC
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/11 - 12/07
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	% RSD r²
IV.	Continuing calibration /ICV	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	PC4E ~~Client specified~~
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	TB = Trip Blank

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: water

1	MW07	11		21		31	
2	E141A	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

DC #: 17260 B1
DG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: NG
2nd Reviewer: [illegible]

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
[illegible]				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
[illegible]				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
[illegible]				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?		✓		
[illegible]				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
[illegible]				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
[illegible]				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
[illegible]				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		✓		
Was a MS/MSD analyzed every 20 samples of each matrix?		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
[illegible]				
Was an LCS analyzed for this SDG?	✓			

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DC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Reviewer: JN
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within + 30 seconds of the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		✓		
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl chorlde**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL. Tetrahydrofuran

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 17260B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
(Y) N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
(Y) N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? $r^2 \geq 0.99$
(Y) N N/A Did the initial calibration meet the acceptance criteria?
Y (N) N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	7/22/07	ICAL	M		0.045	All + Blk	J/UJ/A
			LLLL		0.028	↓	↓

SGZ

LDC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: L

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

(Y) N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y (N) N/A Were all %D and RRFs within the validation criteria of ≤ 25 %D and ≥ 0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	7/27/07	CCV	M		0.047	All + Blk	J/UJ/A
			LLL		0.027	↓	↓

CONCAL.1SB

LDC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: DVB
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a method blank associated with every sample in this SDG?
(Y) N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
(Y) N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 7/23/07
Conc. units: ug/L
Associated Samples: All (ND)

Compound	Blank ID	Sample Identification								
	Method Blank									
Methylene chloride	1.60									
Acetone										
G	0.124									
N	0.0952									
CRQL										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: JVC
2nd Reviewer: LA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples: All (ND)

Compound	Trip Blank Blank ID	Blank ID	Sample Identification							
Sampling Date	7/12/07									
Methylene chloride	0.30									
Acetone										
Chloroform										
CRQL										

Blank units: _____ **Associated sample units:** _____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples:

Compound	Blank ID	Blank ID	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 17260B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVC
2nd Reviewer:

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		P64C	FF	0 (49-159)	0 (49-159)	( )	None	None
			DDD	( )	0 (1-196)	200 (36)	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 17260B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: DTZ
2nd Reviewer: LA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (4.0 std)	Recalculated RRF (4.0 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL GCMS1	7/22-23/07	~~Methylene chloride~~ C (1st internal standard)	0.415	0.415	0.401	0.401	8.40	8.42
			~~Trichlorethene~~ EE (2nd internal standard)	2.448	2.448	2.349	2.349	4.61	4.61
			~~Toluene~~ BB (3rd internal standard)	0.462	0.462	0.476	0.476	11-97	11.97
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: JVB
2nd Reviewer: LA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_is)/(A_is)(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV1	7/23/07	Methylene chloride (1st Internal standard)	0.401	0.413	0.413	3.0	3.0
			Trichloroethene (2nd Internal standard)	2.349	2.377	2.377	1.2	1.2
			Toluene (3rd Internal standard)	0.476	0.469	0.469	1.5	1.5
2			Methylene chloride (1st Internal standard)					
			Trichloroethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					
3			Methylene chloride (1st Internal standard)					
			Trichloroethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					
4			Methylene chloride (1st Internal standard)					
			Trichloroethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 17260B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVC
2nd reviewer: ✓

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	3.6	3.374	94	94	0
Bromofluorobenzene	↓	3.299	92	92	↓
1,2-Dichloroethane-d4		3.227	90	90	
Dibromofluoromethane	✓	2.633	73	73	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 17260 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: JVC
2nd Reviewer: LA

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: 490249 LCS

Compound	Spike Added (µg/L)		Spiked Sample Concentration (µg/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	2.00	NA	2.07	NA	104	104				
Trichloroethene			2.04		102	102				
Benzene			2.02		101	101				
Toluene			2.04		102	102				
Chlorobenzene			2.01		100	101				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

DC #: 17260 B1
SDG #: Sa Cures

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1 , C :

Conc. = $\frac{(80795)(4.00)(\quad)}{(1074503)(0.401)(\quad)(\quad)}$

= 0.7503 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

304/304

Appendix J
Vertical Screening Information

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TS DATE: 4/17/07	BY: THL DATE: 9-19-07

SAMPLE ID: Drillwater-01 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER N/A

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER Drilling water

PURGING	TIME:	DATE:	SAMPLE	TIME: 1535	DATE: 4/17/07

PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____	PH: NM SU CONDUCTIVITY: NM umhos/cm
	ORP: NM mv DO: NM mg/L
DEPTH TO WATER: _____ T/ PVC	TURBIDITY: _____ NTU
DEPTH TO BOTTOM _____ T/ PVC	☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS	TEMPERATURE: NM °C OTHER: _____
VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS	COLOR: clear ODOR: NO
COLOR: _____ ODOR: _____	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY: _____	FILTRATE COLOR: _____ FILTRATE ODOR: _____
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QC SAMPLE: ☐ MS/MSD ☐ DUP- _____
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 4/17/07 AIRBILL NUMBER: _____

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/11/07

1/282

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JS DATE: 4/17/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW11A (35-45') WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1420	DATE: 4/17/07	SAMPLE	TIME: 1610	DATE: 4/17/07

PURGE METHOD: ☒ PUMP ~~1420 TS~~ 4/17 ☐ BAILER

DEPTH TO WATER: ~24 ~~T/ PVC GS~~ FT BGS

DEPTH TO BOTTOM ~43 ~~T/ PVC~~ FT BGS

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 158.4 ☐ LITERS ☒ GALLONS

COLOR: Grey/brown ODOR: None

TURBIDITY:

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: 7.98 SU CONDUCTIVITY: 732 umhos/cm (4)

ORP: -180 mv DO: 0.20 mg/L

TURBIDITY: NM NTU (3)

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: _____ °C OTHER: —

COLOR: Brown ODOR: none

FILTRATE (0.45 um) ☐ YES ☐ NO NA

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Dillwater-01 collected concurrently

TIME	PURGE RATE (~~ML~~/MIN) gal	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (2) (mg/L)	TURBIDITY (3) (NTU)	TEMPERATURE (°C)	WATER LEVEL (1) (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1500	~1.7	7.78	713	-125	0.88	very	14.5	NM	~~INITIAL~~ ~50
1512	1.7	7.80	727	-153	0.23	"	14.5		70.4
1522	1.7	7.87	712	-151	1.09	"	14.8		87.4
1532	1.7	7.88	719	-143	0.66	"	14.8		104.4
1543	~1.5	7.96	726	-176	0.23	"	15.1		120.9
1553	1.5	7.98	726	-181	0.20	"	15.4		135.9
1558	1.5	7.97	730	-181	0.19	"	15.4		143.4
1603	1.5	7.98	732	-182	0.21	"	15.4		150.9
1608	1.5	7.98	732	-180	(0.20)	"	15.4		See notes 158.4
		✓	✓	✓	✓	see note	✓		

Note — ~150 gal H_2O used during drillin. Purging at ~~maximum sustainable~~ avg rate of 1.7 gpm, however, flow is intermittent. Therefore, field moments such as DO* may be highly variable since pipe sometimes not saturated w/ water.

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/17/07	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 9/25/07

2

Notes

(1) Not able to measure water level due to packer in well

(2) DO measurements variable due to surging removal (pulsing) of water

(3) Turbidity too high to measure on Hatch kit, likely >1000 NTU

(4) Generator running pump while samples collected. Also next to busy road w/ school buses often. Potential for sample cross contamination

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: RMT Inc
Project Contact: Bob Keller
Telephone: 608-219-1687
Project Name: EG M Phase 2
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate K + Tom S

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To: Ken Quinn
Company: RMT Inc
Address: 744 Heartland Trl
City/State/Zip: Madison WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N: N / 6 Cat Lead VOC							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test											
4/17/07	16:30	G	GDDR-Mw1		W	4							4	HT	
↑	16:10	↑	GDMW11A (35-45)		GW	4							4	HT	
↓	15:55	↓	Drill water 01		W	4							4	HT	
			Trip blank			2									

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/17/07 1900		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
TW FX			

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Seal - Intact

RMT

WATER SAMPLE LOG

4-18-07?

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4/18/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW11A (185-195) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1355	DATE: 4/18/07	SAMPLE	TIME:	DATE:

See next page

PURGE METHOD: ☒ PUMP 5.5gp → 3.5gp → 1.0 ☐ BAILER

DEPTH TO WATER: NM T/ PVC

DEPTH TO BOTTOM 95 ~~T/ PVC~~ FT BGS

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~500 ☐ LITERS ☐ GALLONS

COLOR: Brown ODOR: none

TURBIDITY:

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: SU CONDUCTIVITY: umhos/cm

ORP: mv DO: mg/L

TURBIDITY: NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: °C OTHER:

COLOR: ODOR:

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

	TIME	PURGE RATE (1) (gal/ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
					~~-205~~					INITIAL
7/18/07	1605	5.5/0.07	8.86	305	-205	0.32	>1000	11.0	NM	
	1615	5.5/0.07	8.99	284	-208	0.32	>1000	10.7		
	1625	5.5/0.07	8.99	282	-199	0.38	>1000	10.2		
	1635	Pump out water from tank, pause is pumping while emptying tank								
	1700	10/ ~~3.5~~	9.10	305	→ Pump fails, no further measurements collected on 7/18					
		purging begins @ 7:15 am on 4/19								
7/19/07	729	3.5/0.1	8.99	288	-59	2.22 (2)	119	11.1		
	739	3.5/0.1	9.01	283	-41	1.79	113	9.9		
	749	3.5/0.1	9.02	282	-70	1.21	124	11.0		
	759	3.5/0.1	9.02	281	-84	3.23	100	10.7		

Continued on next page

1/15

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/19/07	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 9/20/07

5

(1) Two purge rates. First is total, second is rate through flow through cell.
(2) DO results are unstable from minute to minute. Wide range of values (1.0 - 2.5 mg/L) over several minute

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TS DATE: 4/19/07	BY: TH DATE: 9-19-07

SAMPLE ID: GDMW11A (185-195) Continued from previous page WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 4/19/07	DATE:

279

PURGE METHOD: ☐ PUMP ☐ BAILER	PH: 9.00 SU CONDUCTIVITY: 271 umhos/cm
	ORP: -192 mv DO: 0.34 mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: 12 NTU
DEPTH TO BOTTOM T/ PVC	☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: ☐ LITERS ☐ GALLONS	TEMPERATURE: 12.2 °C OTHER:
VOLUME REMOVED: ☐ LITERS ☐ GALLONS	COLOR: clear ODOR: No
COLOR: ODOR:	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY:	FILTRATE COLOR: FILTRATE ODOR:
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QC SAMPLE: ☐ MS/MSD ☐ DUP-
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER	COMMENTS: Drillwater O2 collected shortly afterward

TIME	PURGE RATE (~~ML~~/MIN) gal	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ~~OR L~~) INITIAL
809	3.5/0.1	9.03	280	-113	1.35	87	10.3		
	lower purge rate after total purge volume = 475 gal								
822	1.0/0.1	9.01	280	-153	1.08	48	11.4		
827	1.0/0.1	9.02	280	-137	1.34	33	11.2		
832	1.0/0.1	9.02	280	-140	1.11	30	11.0		
837	1.0/0.1	9.03	280	-148	0.95	27	11.1		
842	1.0/0.1	9.02	280	-158	0.82	37	11.2		
847	1.0/0.1	9.02	280	-170	0.63	76	11.6		
852	1.0/0.1	9.03	279	-178	0.56	60	11.7		
857	1.0/0.1	9.02	279	-184	0.46	23	11.9		
902	1.0/0.1	9.01	279	-188	0.41	15	12.2		
907	1.0/0.1	9.00	279	-192	0.34	12	12.2		~ 475 to 500 gal

✓ ✓ 279 ✓ ↓ ↓ ✓

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	Fed Ex	DATE SHIPPED:	4/19/07	AIRBILL NUMBER:	NA
COC NUMBER:	CT Labs	SIGNATURE:	[signature]	DATE SIGNED:	9/20/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TS DATE: 4/19/07	BY: THL DATE: 9-19-07

SAMPLE ID: D, MW Apr-07 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER Municipal Supply used in drilling water

PURGING	TIME:	DATE:	SAMPLE	TIME: 1035	DATE: 4/19/07
PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____			PH: 8.00 SU	CONDUCTIVITY: 712 umhos/cm	
			ORP: 163 mv	DO: 5.63 mg/L (1)	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM _____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.6 °C	OTHER: _____	
VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS			COLOR: Clear	ODOR: None	
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: _____			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- _____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☒ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/19/07	AIRBILL NUMBER: NA
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 9/20/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/19/07	BY: TH DATE: 9-19-07

SAMPLE ID: GDMW13 20-25 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1140	DATE: 4/19/07

PURGE METHOD: ☒ PUMP Waterra 5 gal/5min ☐ BAILER

DEPTH TO WATER: ~21 ft T/ PVC

DEPTH TO BOTTOM ~25 T/ PVC

WELL VOLUME: 0.7 ☐ LITERS ☒ GALLONS

VOLUME REMOVED: 15 ☐ LITERS ☒ GALLONS

COLOR: brown ODOR: None

TURBIDITY: 71000

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1200	DATE: 4/19/07

PH: 7.67 SU CONDUCTIVITY: 857 umhos/cm

ORP: 90 mv DO: 8.64 mg/L

TURBIDITY: 71000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 11.3 °C OTHER:

COLOR: lt brown ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: ____ FILTRATE ODOR: ____

~~QC SAMPLE:~~ ☐ ~~MS/MSD~~ ☐ ~~DUP:~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ~~ORLY~~)
1147		7.81	1236	45	7.96	>1000	12.0	/	INITIAL 0
1205		7.70	910	72	9.01	>1000	11.4	/	
1208		7.70	891	70	8.69	>1000	11.4	/	
1211		7.64	870	63	8.75	>1000	11.4	/	
1214		7.68	870	89	8.74	>1000	11.3	/	
1217		7.68	863	93	8.76	>1000	11.2	/	
1220		7.67	857	90	8.64	>1000	11.3		15 GAL
		✓	✓	✓	✓	✓	✓		
					Very high				

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	None	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/19/07	AIRBILL NUMBER: n/a
COC NUMBER: CTLabs	SIGNATURE: [signature]	DATE SIGNED: 5/1/07

8

6 gallons

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RMT WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/19/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW13 (25-35) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

1.6

* 1.7

14

*

?

PURGING	TIME: 1430	DATE: 4/19/07	SAMPLE	TIME: 1504	DATE: 4/19/07
PURGE METHOD: ☒ PUMP Waterra ☐ BAILER			PH: 7.86 SU	CONDUCTIVITY: 797 umhos/cm	
			ORP: 76 mv	DO: 8.81 mg/L	
DEPTH TO WATER: ~21 ft/ ~~PVC~~ bgs			TURBIDITY: >1000 NTU		
DEPTH TO BOTTOM 35 T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		
WELL VOLUME: 8 ~~25~~ ☐ LITERS ☒ GALLONS			TEMPERATURE: 12.9 °C OTHER:		
VOLUME REMOVED: 25 ☐ LITERS ☒ GALLONS			COLOR: lt brown ODOR: None		
COLOR: Brown ODOR:			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: >1000			~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~		
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

Some bubbles moving through probe due to periodic pumping DO & Redox suspect

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1450		7.76	787	101	8.50	>1000	13.4°	✓	INITIAL
1453		7.85	786	92	8.89	>1000	13.7°	✓	22
1456		7.87	799	81	10.11	>1000	13.5	✓	23.5
1459		7.86	805	77	10.85	>1000	13.6	✓	24.0
1502		7.87	808	70	8.90	>1000	13.6	✓	25
1505		7.84	808	66	8.63	>1000	13.8	✓	25.75
~~1508~~	1510	7.87	808	57	8.79	>1000	13.4	✓	27.0
~~1511~~	1515	7.88	803	80	8.67	>1000	13.3	✓	28.5
	1518	7.87	800	81	8.94	>1000	13.2	✓	30.0
	1521	7.87	799	73	9.45	>1000	13.1	✓	31.0
	1524	7.86	797	76	8.81	>10000	12.9	✓	32.0

21

DO high due to bubbles

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/19/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/19/07	BY: TH DATE: 9-19-07

SAMPLE ID: GD MW13 (35-45) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1455	DATE: 4/19/07	SAMPLE	TIME: 1712	DATE: 4/19/07
PURGE METHOD: ☒ PUMP 15gpm ☐ BAILER			PH: 7.70 SU	CONDUCTIVITY: 704 umhos/cm	
			ORP: 194 mv	DO: 5.61 mg/L	
DEPTH TO WATER: ~31 T/ PVC			TURBIDITY: 185 NTU		
DEPTH TO BOTTOM 45 T/ PVC			☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY		
WELL VOLUME: 1.7 ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.4 °C OTHER:		
VOLUME REMOVED: ~250 ☐ LITERS ☒ GALLONS			COLOR: lt brown ODOR: None		
COLOR: lt brown ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: FILTRATE ODOR:		
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

6 + 90 + 70 = 166 / 5 = 33.2

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ~~OR L~~)
~~1455~~	400	7.86	720	175	6.65	71000	13.3		INITIAL
1700		7.80	714	184	6.08	719	13.2		
~~1705~~ 1703		7.76	710	187	5.52	209	13.0		
~~1710~~ 1708		7.76	709	193	5.37	154	13.3		
1715		7.77	708	193	5.50	130	13.3		
1712		7.76	704	194	5.61	185	13.4		
~~1725~~		✓	✓	✓	✓	✓	✓		

pump stopped from 1703 to 1709 Too much pressure

seems high

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	VOA	A	☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/19/07	AIRBILL NUMBER:
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT Inc.
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller & Tom S.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CT Laboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To: Ken Quinn
Company: RMT, Inc.
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company: As Above
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lv/VOC							Total # of Containers	Preservation*	Lab ID #
4/19/07	1220	G	GDMW13 (20-25)		GW	4							4	A	
↓	1035	↓	Drill water 02		NGW	↓							↓	↓	
↓	907	↓	GDMW11A (185-175)		GW	↓							↓	↓	
4/19/07	1524	G	GDMW13 (25-35)		GW	4							4	A	
↓	1712	↓	GDMW13 (35-45		GW	4							4	A	
			Trip Blank		W	2							2	B	

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel [signature]	4/19/07 1950		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Fed Ex			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/20/07	BY: TJC DATE: 9-19-07

SAMPLE ID: GDMW13 (45-55) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 710	DATE: 4/20/07	SAMPLE	TIME: 740	DATE: 4/20/07
PURGE METHOD: ☒ PUMP 15GPM ☐ BAILER			PH: 7.43 SU	CONDUCTIVITY: 688 umhos/cm	
DEPTH TO WATER: ~21 T/ PVC			ORP: 19 mv	DO: 5.96 mg/L	
DEPTH TO BOTTOM ~55 T/ PVC			TURBIDITY: 6.19 NTU		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED: 215 ☐ LITERS ☒ GALLONS			TEMPERATURE: 11.0 °C OTHER:		
COLOR: Brown to Lt brown ODOR: None			COLOR: Colorless ODOR:		
TURBIDITY:			FILTRATE (0.45 um) ☐ YES ☒ NO		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
725		7.31	687	34	6.68	46.5	11.2		INITIAL
728		7.35	687	30 uV	6.51	39.3	11.1		
731		7.38	687	28	6.08	17.9	11.0		
734		7.41	687	24	5.82	11.0	11.0		
737		7.42	695	20	6.20	8.21	11.1		200
740		7.43	688	19 J	5.96	6.19	11.0		215
		✓	✓	✓	DO seems high	✓	✓		

Crank pump down to 5-7 gal/min

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: N/A
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/20/07	BY: TH DATE: 4-19-07

SAMPLE ID: GDMW13 (55-65) | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 850	DATE: 4/20/07	SAMPLE	TIME: 921	DATE: 4/20/07
PURGE METHOD: ☒ PUMP @ 25 / 5-7 ☐ BAILER			PH: 7.63 SU	CONDUCTIVITY: 702 umhos/cm	
DEPTH TO WATER: ~21 T/ PVC			ORP: 57 mv	DO: 4.22 mg/L	
DEPTH TO BOTTOM 65 T/ PVC			TURBIDITY: 210 NTU		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY		
VOLUME REMOVED: 155 ☐ LITERS ☒ GALLONS			TEMPERATURE: 14.6 °C OTHER:		
COLOR: v. lt brown ODOR:			COLOR: v. lt brown ODOR: None		
TURBIDITY:			FILTRATE (0.45 um) ☐ YES ☒ NO		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
			COMMENTS:		

20 gal Lost

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
900	400 mL/min	7.72	702	43	6.41	>1000	13.6	/	INITIAL 90
903		7.61	699	29	4.44	431	13.2	/	110
906		7.60	699	45	4.53	333	13.3	/	125
909		7.60	698	51	4.67	289	13.4	/	135
912		7.61	700	54	4.49	307	13.9	/	~~145~~ 140
915		7.63	702	55	4.30	236	14.3	/	~~155~~ 145
918		7.63	702	57	4.11	207	14.4	/	~~165~~ 150
921		7.63	702	57J	4.22	210	14.6	/	~~170~~ 155 Grab
		✓	✓	✓	DO high	✓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	GL	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/20/07	BY: THC DATE: 9-19-07

SAMPLE ID: GDMW13 65-75 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1010	DATE: 4/20/07	SAMPLE	TIME: 1030	DATE: 4/20/07
PURGE METHOD: ☒ PUMP 15 gpm ☐ BAILER			PH: 7.48 SU	CONDUCTIVITY: 735 umhos/cm	
			ORP: 84 mv	DO: 4.50 mg/L	
DEPTH TO WATER: ~21 T/ PVC			TURBIDITY: 291 NTU		
DEPTH TO BOTTOM 75 T/ PVC			☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 15.4 °C OTHER:		
VOLUME REMOVED: 140 ☐ LITERS ☒ GALLONS			COLOR: V. lt brown ODOR: None		
COLOR: lt brown ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: ____ FILTRATE ODOR: ____		
☐ NONE ☐ SLIGHT ☒ MODERATE to ☒ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP 01		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1005	400 mL/min	7.68	734	110	4.62	>1000	14.8		INITIAL
1018		7.56	732	91	4.33	375	13.8		100
1021		7.54	735	82	4.67	287	14.3		~110
1024		7.50	735	87	4.88	251	14.9		~120
1027		7.49	735	86	4.23	278	15.3		~130
1030		7.48	735	84 J	4.50	291	15.4		~140 GAL

Throttled 2.5 gpm

3 bpm

high?

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
9	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: n/a
COC NUMBER: CTLabs	SIGNATURE: [signature]	DATE SIGNED: 5/1/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/20/07	BY: TH2 DATE: 9-19-07

SAMPLE ID: GWMW13 (75-85) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1120	DATE: 4/20/07	SAMPLE	TIME: 1209	DATE: 4/20/07

PURGE METHOD: ☒ PUMP 15 gpm / ~3 gpm ☐ BAILER _____

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM ~85 T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 250 ☐ LITERS ☐ GALLONS

COLOR: lt brown ODOR: None

TURBIDITY: _____

☐ NONE ☒ SLIGHT to ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.41 SU CONDUCTIVITY: 793 umhos/cm

ORP: -29 mv DO: 3.13 mg/L

TURBIDITY: 23.2 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 16.4 °C OTHER: _____

COLOR: colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1130	400	7.41	785	83	3.99	280	13.9	/	INITIAL
1133		7.40	786	84	3.18	148	13.8	/	150
1136		7.37	785	55	3.22	114	13.7	/	160
1139		7.37	786	79	3.32	96.1	14.7	/	
1142		7.36	787	97	3.38	90.9	16.5	/	170
1145		7.35	789	99	3.27	91.1	17.0	/	180
1149		7.37	791	72	3.49	80.4	16.9	/	190
1151		7.38	792	64	3.52	76.8	17.1	/	200
1154		7.38	793	47	3.46	68.2	17.2	/	210
1157		7.40	793	6	3.22	41.4	16.8	/	220
1200		7.40	793	-10	2.65	37.2	15.9	/	230
1203		7.40	793	-19	3.11	29.8	16.1	/	240
1206		7.41	793	-24	2.97	27.7	16.2	/	245
1209		7.41	793	-29J	3.13	23.2	16.4	/	250 GAL

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: n/a
COC NUMBER: CTLab5	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRC DATE: 4/20/07	BY: THL DATE: 9-19-07

SAMPLE ID: GOMW13 (85-95) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1305	DATE: 4/20/07	SAMPLE	TIME: 1351	DATE: 4/20/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM 95 T/ PVC

WELL VOLUME: ~~—~~ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 257 ☐ LITERS ☐ GALLONS

COLOR: Colorless ODOR: None

TURBIDITY:

☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.32 SU CONDUCTIVITY: 799 umhos/cm

ORP: -58 mv DO: 2.79 mg/L

TURBIDITY: 42 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 17.5 °C OTHER:

COLOR: colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

Est. Loss 50gal ?

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
~~1312~~ 1315	450	7.31	797	33	5.99	79.3	14.4	/	INITIAL 140
~~1315~~ 1318		7.31	798	27	4.21	73.7	14.5	/	150
1321		7.31	798	27	4.52	63.6	14.9	/	160
1324		7.30	794	25	4.26	59.1	15.7	/	170
1327		7.31	796	1 mV	3.91	60.8	17.2	/	180
1330		7.31	798	-11	3.44	52.7	18.0	/	185
1333		7.33	798	-24	3.46	49.9	18.1	/	195
1336		7.33	799	-51	3.35	53.4	18.2	/	205
1339		7.34	799	-40	3.23	46.1	18.2	/	215
1342		7.34	799	-44	3.04	59.2	18.3	/	225
1345		7.34	798	-53	2.85	52.0	17.1	/	235
1348		7.34	799	-55	3.79	40.4	17.5	/	245
1351		7.32	799	-58 J	2.79	42.0	17.5	/	255 GAL?

BOTTLES FILLED	PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/1/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MRh DATE: 4/20/07	BY: THC DATE: 9-19-07

SAMPLE ID: GD MW 13 95-105 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 2 50	DATE: 4/20/07	SAMPLE	TIME: 17 35	DATE: 4/20/07

Drillers Lost Est. 50

PURGE METHOD: ☒ PUMP 0.8 gal/min = 80 ml/min ☐ BAILER 150 gal

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~175 ☐ LITERS ☒ GALLONS

COLOR: 5 ODOR: None

TURBIDITY: Brown

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.50 SU CONDUCTIVITY: 768 umhos/cm

ORP: -217 mv DO: 2.24 mg/L

TURBIDITY: 7.26 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 17.2 °C OTHER:

COLOR: colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
~~1707~~ 1710	400	7.52	769	-212	1.84	18.9	17.8	/	INITIAL 150
1715		7.51	769	-226	3.57	16.5	17.7	/	155
1720		7.51	768	-223	2.41	13.5	17.7	/	~160
1725		7.51	769	-219	2.21	14.1	17.6	/	~165
1730		7.50	768	-215	2.18	9.63	17.4	/	~170
1735		7.50	768	-217.5	2.24	7.26	17.2	/	~175 GAL
~~1740~~		✓	✓	✓	✓ high?	↓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____						
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/20/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE:	DATE SIGNED: 5/11/07

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: N. Keller & Tom S

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To: Ken Quinn
Company: RMT, Inc.
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company: As Above
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC								Total # of Containers	Preservation*	Lab ID #
4/20/07	7:40	G	GDMW13 (45-55)		GW	4								4	A	
↓	9:21	↓	GDMW13 (55-65)		↓	↓								↓	↓	
↓	10:30	↓	GDMW13 (65-75)		↓	↓								↓	↓	
↓	12:09	↓	GDMW13 (75-85)		↓	↓								↓	↓	
↓	13:51	↓	GDMW13 (85-95)		↓	↓								↓	↓	
↓	—	↓	Dup01		↓	↓								↓	↓	
↓	17:35	↓	GDMW13 (95-105)		↓	↓								↓	↓	
			Trip Blanks		W	2								2	R	

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/20/07 19:40		
Received by: [signature]	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NK DATE: 4/21/07	BY: THR DATE: 9-19-07

SAMPLE ID: GDMW13 905-1115 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est. Loss 60 gal

10 min 110 gal 175 gal 15 min

PURGING	TIME: 713	DATE: 4/21/07	SAMPLE	TIME: 806	DATE: 4/21/07
PURGE METHOD: ☒ PUMP ~1 gpm ☐ BAILER			PH: 7.25 SU	CONDUCTIVITY: 721 umhos/cm	
			ORP: -205 mv	DO: 0.87 mg/L	
DEPTH TO WATER: ~21 T/ PVC			TURBIDITY: 23.9 NTU		
DEPTH TO BOTTOM — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.1 °C OTHER:		
VOLUME REMOVED: ~285 ☐ LITERS ☒ GALLONS			COLOR: Cloudy ODOR: None		
COLOR: Brown/colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~		
☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ ~~MS/MSD~~ ☐ ~~DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
730	400	7.11	707	-153	—	173	11.0		INITIAL
~~733~~									
736		7.15	709	-214	—	168	11.1		~~20~~
739		7.19	709	-174	1.40	120	11.2		205
742		7.17	711	-187	1.33	126	11.4		210
745		7.15	713	-205	1.14	140	12.1		220
748		7.17	714	-210	1.04	84.8	12.2		230
751		7.19	716	-212	0.99	60.4	12.4		240
754		7.21	717	-216	0.99	51.5	12.7		250
757		7.21	718	-225	0.94	48.0	12.8		260
800		7.22	720	-207	0.89	35.8	13.0		265
803		7.23	721	-212	0.86	30.4	13.0		275
806		7.25	721	-205J	0.87	23.9	13.1		285 GAL
~~809~~									

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
		Bonded Msgerp		☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: ~~Fed Ex~~	DATE SHIPPED: 4/21/07	AIRBILL NUMBER: —
COC NUMBER: CT Labs	SIGNATURE: Nathaniel R Kelly	DATE SIGNED: 5/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 9/21/07	BY: THz DATE: 9-19-07

SAMPLE ID: GDMW13 (115-125) WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [X] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Drillers Est. Loss 50gal

PURGING	TIME: 913	DATE: 4/21/07	SAMPLE	TIME: 952	DATE: 4/21/07

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM 125 T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 200 [ ] LITERS [X] GALLONS

COLOR: colorless ODOR: None

TURBIDITY:

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.42 SU CONDUCTIVITY: 734 umhos/cm

ORP: -269 mv DO: 0.62 mg/L

TURBIDITY: 8.88 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 15.4 °C OTHER:

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ FILTRATE ODOR:

~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
940	400mL/min	7.36	732	-243	0.76	25.4	15.3	—	INITIAL 160
943	↓	7.40	732	-241	0.66	19.2	15.4	—	170
946		7.41	734	-269	0.64	12.3	14.9	—	180
949		7.44	734	-263	0.62	9.48	15.4	—	
952		7.42	734	-269.5	0.62	8.88	15.4	—	200 GAL
~~955~~		✓	✓	✓	✓	✓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
40	40mL	gl	A	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 4/21/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: Nathaniel R [signature] DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NLK DATE: 4/21/07	BY: JH DATE: 9-19

SAMPLE ID: GP(MW)3 (125-135) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Driller's Lost 460 gal

pump @ ~3 gpm

PURGING	TIME: 1101	DATE: 4/21/07
PURGE METHOD: ☒ PUMP ☐ BAILER		
DEPTH TO WATER: ~21 ~~T/ PVC~~ BGS		
DEPTH TO BOTTOM: ~135 T/ PVC		
WELL VOLUME: — ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: 240 ☐ LITERS ☒ GALLONS		
COLOR: V. lt brown ODOR: None		
TURBIDITY:		
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER		

SAMPLE	TIME: 1205	DATE: ~~4/21/07~~ 4/21/07
PH: 7.42 SU	CONDUCTIVITY: 743 umhos/cm	
ORP: -171 mv	DO: 0.44 mg/L	
TURBIDITY: 4.14 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 18.9 °C	OTHER:	
COLOR: Colorless	ODOR: None	
FILTRATE (0.45 um) ☐ YES ☒ NO		
~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1117	350	7.35	730	-70	0.75	23.9	14.2		INITIAL
1120		7.36	734	-37	0.78	16.1	16.2		
1123		7.37	733	-39	0.77	14.5	17.0		170
1126		7.36	734	-43	0.76	13.0	17.7		180
1129		7.34	734	-43	0.76	13.0	18.5		190
1132		7.34	735	-47	0.77	15.0	19.0		
1135		7.34	736	-60	0.69	10.9	18.8		
1138		7.36	737	-82	0.63	9.41	18.4		~205
1141		7.37	738	-96	0.58	8.30	18.5		
1144		7.38	740	-114	0.54	8.34	18.6		~215
1147		7.38	741	-125	0.52	6.6	18.7		
1150		7.40	742	-139	0.50	6.18	18.8		~220
1153		7.40	743	-154	0.47		18.8		
1156		7.41	743	-163 J	0.46	5.42	18.9		~230 GAL
1159		7.41	745	-171	0.45	4.70	18.9		
1202		7.42	743	-176	0.41	5.08	18.7		
1205		7.42	745	-179	0.44	4.14	18.9		~240 GAL

BOTTLES FILLED	PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	GI	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Money	DATE SHIPPED: 4/21/07	AIRBILL NUMBER: —
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/21/07	BY: THR DATE: 9-19-07

SAMPLE ID: Equip [redacted] Black | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER N/A

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER N/A

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER Water

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1200	DATE: 4/21/07

PH: ~ SU CONDUCTIVITY: ~ umhos/cm

ORP: ~ mv DO: ~ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

Rem 1211768

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

how was equipment blank collected?

Describe:

Collected from potable water through pump after decon was completed

1900
236
7368
7695605 973

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	eql	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messg DATE SHIPPED: 4/21/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: Nathaniel R Hill DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/21/07	BY: THL DATE: 9-19-07

SAMPLE ID: GOMW 13 135-145 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1310	DATE: 4/21/07	SAMPLE	TIME: 1407	DATE: 4/21/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 7.33 SU	CONDUCTIVITY: 746 umhos/cm	
DEPTH TO WATER: ~21 T/ PVC			ORP: -207 mv	DO: 0.41 mg/L	
DEPTH TO BOTTOM 145 T/ PVC			TURBIDITY: 6.61 NTU		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED: ~300 ☐ LITERS ☒ GALLONS			TEMPERATURE: 17.4 °C OTHER:		
COLOR: colorless ODOR: NONE			COLOR: Colorless ODOR: None		
TURBIDITY:			FILTRATE (0.45 um) ☐ YES ☒ NO		
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			~~QC SAMPLE: ☐ MS/MSD~~ ☐ DUP-		
			COMMENTS:		

Filled Last ~40l

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1325	400ml/min	7.32	739	-22	0.58	88.3	14.8		~~INITIAL~~
1330		7.31	740	-143	1.08	54.0	15.6		
1335		7.28	740	-88	0.55	47.9	17.1		
1340		7.33	746	-140	0.51	25.8	17.5		
1345		7.35	748	-168	0.46	12.5	17.7		~210
1350		7.35	747	-200	0.42	12.2	17.6		
1355		7.35	747	-213	0.41	13.9	17.2		
1400		7.35	746	-211	0.40	8.01	17.0		
1405		7.33	746	-207	0.41	6.61	17.4		~300 GAL
~~1410~~		✓	✓	✓	✓	↓	✓		
~~1415~~									

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 4/21/07 AIRBILL NUMBER: —

COC NUMBER: CTLabs SIGNATURE: [signature] DATE SIGNED: 5/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JBS DATE: 4/21/07	BY: TH-C DATE: 9-19-07

SAMPLE ID: Equipment Blank (½ HP Pump) WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER ____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER ____

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER ____

PURGING	TIME:	DATE:	SAMPLE	TIME: 1520	DATE: 4/21/07

PURGE METHOD: ☐ PUMP ____ ☐ BAILER ____

DEPTH TO WATER: ____ T/ PVC

DEPTH TO BOTTOM ____ T/ PVC

WELL VOLUME: ____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS

COLOR: ____ ODOR: ____

TURBIDITY: ____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: ____ SU CONDUCTIVITY: ____ umhos/cm

ORP: ____ mv DO: ____ mg/L

TURBIDITY: ____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: ____ °C OTHER: ____

COLOR: clear ODOR: ____

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: ____ FILTRATE ODOR: ____

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: Decon w/ Equipment and Purge ~100 Gal clean water before collecting Samples

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

How was equipment blank collected?

Describe: ____

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 4/21/07 AIRBILL NUMBER: ____

COC NUMBER: 4/21/07 SIGNATURE: [signature] DATE SIGNED: 5/11/07

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company:
Project Contact:
Telephone:
Project Name:
Project Number:
Project Location:
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Please Send 4 more coolers and Trip/Temp Blanks to Nate Keller

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Level VOC							Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N											
				Fill in Spaces with Bottles per Test											
4/21/08	800	G	GDMW13 105-115		GW	4									
	952		GDMW13 115-125												
	1005		GDMW13 125-135												
	1400		GDMW13 135-145												
	1500		Equip Blank		W										
	1520		Equip Blank (VOA HPR only)		W										
			Trip Blank		W	1									

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	4/21/08 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Landed			

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4/22/07	BY: THZ DATE: 5-19-07

SAMPLE ID: GDMW10A (115-125) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

20 gal added during drilling

PURGING	TIME: 835	DATE: 4/22/07	SAMPLE	TIME: 943	DATE: 4/22/07
PURGE METHOD: ☒ PUMP 5-20 gpm → 3.2 gpm ☐ BAILER			PH: 7.48 SU	CONDUCTIVITY: 1006 umhos/cm	
			ORP: -137 mv	DO: 0.19 mg/L	
DEPTH TO WATER: 12.0 ~~ft PVC~~ ft bgs			TURBIDITY: 3 NTU		
DEPTH TO BOTTOM 125 ~~ft PVC~~ ft bgs			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 16.0 °C	OTHER:	
VOLUME REMOVED: 748 ☐ LITERS ☒ GALLONS			COLOR: Clear	ODOR:	
COLOR: brown → clear	ODOR: none		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: moderate → none			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- 02		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
928	400	7.49	1002	-133	0.20	5	14.5	NM	~700
933	400	7.49	1005	-135	0.19	4	15.5	NM	716
938	400	7.49	1003	-136	0.18	3	15.8	NM	732
943	400	7.48	1006	-137	0.19	3	16.0	NM	748 GAL
		✓	✓	✓	✓	✓	✓	✓	

3.2 gpm (1)

(1) Purge water at 3.2 gpm after removing ~700 gal, collect field parameters through separate output from pump head, purge rate through there is ~400 ml/min

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TBS DATE: 4/22/07	BY: THZ DATE: 9-19-07

SAMPLE ID: GDMW10A (125-135) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1030	DATE: 4/22/07	SAMPLE	TIME: 1105	DATE: 4/22/07
PURGE METHOD: ☒ PUMP 15gpm / 3gpm ☐ BAILER			PH: 7.39 SU	CONDUCTIVITY: 1195 umhos/cm	
			ORP: -157 mv	DO: 0.17 mg/L	
DEPTH TO WATER: 12 T/ ~~PVC~~ ft bgs			TURBIDITY: 32 NTU		
DEPTH TO BOTTOM 135 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 19 °C	OTHER:	
VOLUME REMOVED 250 ☐ LITERS ☒ GALLONS			COLOR: clear	ODOR: none	
COLOR: brown/grey → clear ODOR: none			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS:		

50 gal H2O added during drilling, remove was present in flow purge

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) (2)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
1045	450	7.43	1233	-166	0.19	56	14.8	NM	200
1050	450	7.40	1207	-154	0.20	558	17.6	NM	215
1055	450	7.39	1190	-150	0.20	185	18.7	NM	230
1100	450	7.39	1195	-155	0.18	63	18.8	NM	245
1105	450	7.39	1195	-157	0.17	32	19.0	NM	250 GAL
		✓	✓	✓	✓	✓	✓	✓	✓

3 gpm (1)

(1) Purge at 3.2 gpm after removing ~200 gal. Collected field parameters through step. output (~450 ml/min)

(2) Temp increasing due to sun on ~~water~~ tubing

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/1/07

3

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSB DATE: 4/22/07	BY: TH2 DATE: 9-19-07

SAMPLE ID: GDMW10A (135-145) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1200	DATE: 4/22/07	SAMPLE	TIME: 1307	DATE: 4/22/07

PURGE METHOD: ☒ PUMP 12-15gpm / 20 gpm ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 360 ☐ LITERS ☒ GALLONS

COLOR: brown → clear ODOR: _____

TURBIDITY: _____

☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: 7.54 SU CONDUCTIVITY: 1239 umhos/cm

ORP: -336 mv DO: 0.15 mg/L

TURBIDITY: 7 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 20.1 °C OTHER: _____

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) (2)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L) (1)
									INITIAL
1233	450	7.51	1238	-294	0.17	151	15.5		300
1238	450	7.49	1237	-278	0.19	131	17.8		310
1243	450	7.48	1236	-268	0.17	121	19.2		320
1248	450	7.52	1238	-302	0.14	16	20.4		330
1253	450	7.56	1230	-321	0.19	8	20.0		340
1258	450	7.55	1240	-342	0.15	7	19.7		350
1303	450	7.54	1239	-336	0.15	7	20.1		360 GAL
		✓	✓	✓	✓	✓	✓		

(1) Purge 2.0 gpm after removing 300 gal. Stabilize performed from separate header @ 450 ml/min

(2) Temp increasing due to direct sunlight on black tubing

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEX	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TBS DATE: 4/22/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW10A (145-155) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

100 gal H2O added during drilling

PURGING	TIME:	DATE:

SAMPLE	TIME: 1510	DATE: 4/22/07

PURGE METHOD: ☒ PUMP 20 gpm / 2 gpm ☐ BAILER

DEPTH TO WATER: 12.2 T/ ~~PVC~~ 81 bgs

DEPTH TO BOTTOM 155 T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 480 ☐ LITERS ☒ GALLONS

COLOR: brown/clear ODOR: none

TURBIDITY: very → none

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: 7.41 SU CONDUCTIVITY: 1148 umhos/cm

ORP: -122 mv DO: 0.63 mg/L

TURBIDITY: 8 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 21.6 °C OTHER: _____

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

400 gal purged @ 2 gpm then reduced to 2 gpm, sample post purging equal @ 400 ml/m

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (1) (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
1430	400	7.37	1148	-85	1.62	146	18.1	NM	400
1435	400	7.38	1140	-92	1.52	100	19.4		410
1440	400	7.39	1146	-99	1.34	28	20.9		420
1445	400	7.40	1148	-106	1.17	34	21.2		430
1450	400	7.42	1150	-110	1.05	15	21.5		440
1455	400	7.43	1150	-112	0.96	11	21.7		450
1500	400	7.42	1146	-116	0.80	16	21.8		460
1505	400	7.40	1147	-120	0.65	10	21.8		470
1505	400	7.41	1148	-122	0.63	8	21.6		480
		✓	✓	✓	✓	✓	✓		

(1) D.O. measurements slowly decreasing & might continue to below .63, but considered stable at current time

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 4/23/07 AIRBILL NUMBER: n/a

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/1/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRC DATE: 4/22/07	BY: THZ DATE: 5-19-07

SAMPLE ID: GDMW13 145-155 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Driller Est. Loss 50 gal

PURGING	TIME: 1215	DATE: 4/22/07	SAMPLE	TIME: 1350	DATE: 4/23/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM ~155 T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 250 ☐ LITERS ☒ GALLONS

COLOR: Brown ODOR: _____

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.24 SU CONDUCTIVITY: 736 umhos/cm

ORP: ~95 mv DO: — mg/L

TURBIDITY: 11.1 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 21.5 °C OTHER: _____

COLOR: Colorless ODOR: _____

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1239		7.14	724	-68	E3	59.0	19.4		INITIAL 190
1242		7.15	725	-75		59.0	18.7		
1245		7.16	728	-79		24.5	19.6		205
1248		7.17	731	-79		24.8	21.3		
1251		7.18	729	-83		23.8	20.3		
1254		7.21	733	-87		15.8	21.0		220
1257		7.22	735	-89		11.8	21.3		
1300		7.24	736	-95J	inst. error	11.1J	21.5		230 GAL
		✓	✓	✓		✓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
6	40ml	G	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CT6645	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/22/07	BY: THL DATE: 4-19-07

SAMPLE ID: GDMW 13 (155-165) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Drillers Lost Est 50 gal

PURGING	TIME: 1415	DATE: 4/22/07	SAMPLE	TIME: 1509	DATE: 4/22/07

PURGE METHOD: ☐ PUMP ☐ BAILER	PH: 7.24 SU CONDUCTIVITY: 765 umhos/cm
	ORP: -412 mv DO: — mg/L
DEPTH TO WATER: -21 T/ PVC	TURBIDITY: 5.18 NTU
DEPTH TO BOTTOM — T/ PVC	☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: — ☐ LITERS ☐ GALLONS	TEMPERATURE: 18.6 °C OTHER:
VOLUME REMOVED: 330 ☐ LITERS ☒ GALLONS	COLOR: Colorless ODOR: None
COLOR: Colorless ODOR: None	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY:	~~FILTRATE COLOR:~~ FILTRATE ODOR:
☐ NONE ☐ SLIGHT ☒ MODERATE for Un ☐ VERY	~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
~~1435~~	~~400~~	~~7.30~~							INITIAL 150
1440	~600 ml/min	7.29	754	-298	E3	22.0	19.6	—	~180
1445		7.33	756	-499		9.04	17.3	—	200
1450		7.29	753	-499		8.56	17.4	—	~230
1455		7.26	751	-445		8.11	17.3	—	~245
~~1500~~					No reading on phone				
1503 → ~~1503~~		7.25	751	-419		6.12	17.9		~300
1506 ~~1506~~		7.25	751	-419		6.01	18.1		
1509 ~~1509~~		7.24	765	-412 J		5.18 J	18.6		~330 GAL
1512 ~~1512~~		✓	✓	✓		✓	✓		
1515 ~~1515~~									

had to use high rate to reduce bubbles

checked ORP probe (ok)

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: N/A	
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07	

RMT®

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: NRK	DATE: 4/22/07	BY: TTR	DATE: 9-19-07

SAMPLE ID: GOMW13 165-175 WELL DIAMETER: [x] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [x] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [x] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Drillers Lost Est. 40 gal

PURGING	TIME: 1740	DATE: 4/22/07	SAMPLE	TIME: 1845	DATE: 4/22/07
PURGE METHOD: [x] PUMP [ ] BAILER			PH: — SU	CONDUCTIVITY: 747 umhos/cm	
			ORP: ___ mv	DO: 0.20 mg/L	
DEPTH TO WATER: ~21 T/ PVC			TURBIDITY: 140 NTU		
DEPTH TO BOTTOM 175 T/ PVC			[x] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 17.6 °C OTHER:		
VOLUME REMOVED: 340 [ ] LITERS [ ] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Brown to color	ODOR: None		FILTRATE (0.45 um) [ ] YES [x] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [ ] SLIGHT [x] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP.~~		
DISPOSAL METHOD [ ] GROUND [x] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE ~~PURGE VOLUME~~ (GAL OR L)
18[10] 610	450	OFF	737	-453	0.21	441	14.6		~~INITIAL~~ 220
615			730	-473	0.19	37.9	14.7		230
620			733	-442	0.18	30.3	15.2		
625			744	-368	0.23	57	18.0		280
630			745	-403	0.21	12.2	17.6		305
635			745	-384	0.22	12.4	17.5		
640			747	-390	0.22	13.1	17.7		
645			747	-392	0.20	140	17.6		340 ? GAL
			✓	✓	✓	✓	✓		

BOTTLES FILLED	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	[ ] Y [x] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/23/07	BY: THC DATE: 4-19-07

SAMPLE ID: GDMW13 175-185 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Driller Est. Loss 70 gal

PURGING	TIME: 1135	DATE: 4/23/07	SAMPLE	TIME: ~~1347~~ NRK	DATE: 4/23/07

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: ~21 T/ PVC

DEPTH TO BOTTOM ~185 T/ PVC

~~WELL VOLUME:~~ — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 365 [ ] LITERS [X] GALLONS

~~COLOR:~~ colorless ODOR: None

TURBIDITY:

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.39 SU CONDUCTIVITY: 805 umhos/cm

ORP: -69 mv DO: 0.39 mg/L

TURBIDITY: — NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 14.0 °C OTHER:

COLOR: Vl. lt brown ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1217	~500 mL/min	7.24	806	-41	0.47	183	12.7	/	INITIAL 225
1222		7.36	808	-79	0.45	275	14.1	/	
1227		7.37	806	-67	0.46	275	14.4	/	
1232		7.39	805	-67	0.47	155	14.5	/	
1237		7.38	805	-66	0.49	183	14.8	/	305
1242		7.39	806	-71	0.43	164	14.3	/	
1247		7.40	806	-68	0.45	158 J	14.6	/	
1252		7.39	805	-69 J	0.39	—	14.0	/	365 ?
		✓	✓	✓	✓	✓ ↓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: Mer
COC NUMBER: CTLabs	SIGNATURE: Nathaniel R Kirk	DATE SIGNED: 4/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 4/23/07	BY: THC DATE: 9-19-07

SAMPLE ID: GD MW13 185-195 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est. Loss Drillers (70 gal)

PURGING	TIME: 1455	DATE: 4/23/07	SAMPLE	TIME: 1553	DATE: 4/23/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 7.41 SU	CONDUCTIVITY: 809 umhos/cm	
			ORP: -236 mv	DO: 0.32 mg/L	
DEPTH TO WATER: ~91 T/ PVC			TURBIDITY: 201 NTU		
DEPTH TO BOTTOM ~195 T/ PVC			☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.0 °C	OTHER:	
VOLUME REMOVED: 360 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR:	
COLOR: Brown	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1523		7.40	806	-150	0.38	140	13.1		INITIAL
1533		7.40	807	-173	0.32	201	13.3		325
1538		7.40	808	-197	0.29	209	13.6		
1543		7.41	808	-232	0.31	152	14.0		
1548		7.40	809	-229	0.34	199	14.1		
1553		7.41	809	-236	0.32	201 J	14.0		360 GAL
		✓	✓	✓	✓	✓	✓		

300 ~~375~~ 310

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEX	DATE SHIPPED: 4/23/07	AIRBILL NUMBER: n/a
COC NUMBER: CTLabs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc.
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: T. Silverman/N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To: Ken Quinn
Company: RMT
Address:
City/State/Zip: Madison

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low level VOC							Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N		N									
				Fill in Spaces with Bottles per Test											
4/22/07	943	G	GDMW10A (115-125)		GW	4								A	
"	1105		GDMW10A (125-135)												
	1303		GDMW10A (135-145)												
	1510		GDMW10A (145-155)												
	—		Dup 02												
	1300		GDMW13 (145-155)										5		
	1509		GDMW13 (155-165)										4		
↓	1845		GDMW13 (165-175)										3		
4/23/07	1135	↓	GDMW13 (175-185)										2		
↓	1553	↓	GDMW13 (185-195)		↓	↓							1	↓	

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/23/07 2000		
Received by: FedEx	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4/25/07	BY: THZ DATE: 9-19-07

SAMPLE ID: GDMW14A(35-45) WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [X] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

150 gal H_2O added during drilling

PURGING	TIME: 950	DATE: 4/25/07	SAMPLE	TIME:	DATE:

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: ~0.5 T/ ~~PVC~~ ft bgs

DEPTH TO BOTTOM _____ T/ PVC

~~WELL VOLUME~~ _____ [ ] LITERS [ ] GALLONS

VOLUME REMOVED: ~520 [ ] LITERS [X] GALLONS

COLOR: _____ ODOR: _____

TURBIDITY: _____

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

DISPOSAL METHOD [ ] GROUND [ ] DRUM [ ] OTHER

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mv DO: _____ mg/L

TURBIDITY: _____ NTU

[ ] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) [ ] YES [ ] NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: [ ] MS/MSD [ ] DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ~~OR L~~)
1113	800(1)	7.46	820	20	5.37	890	11.4		~~INITIAL~~ 500
1115	2400	7.49	825	-3	6.11	745	11.3		
1118	2400	7.48	819	-38	3.72	>1000 ~~819~~	11.3		
1121		7.53	784	-101	1.35	>1000	11.4		
		Purging stops for several minutes while generator out of gas							
1126	1500	7.60	710	-215	0.63	>1000	11.8		
1129	1500	7.59	694	-232	2.70	>1000	12.1		
1132	1100	7.60	692	-232	0.63	>1000	12.3		
1135	1100	7.60	689	-233	0.61	>1000	12.4		
		Problem w/ purging - very aerated sample - will not wait for DO/ORP results to stabilize							
1145		7.57	751	-27	4.52				

(1) purge rate increased to reduce bubbles in flow meter

Continued on next page

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: _____ DATE SHIPPED: _____ AIRBILL NUMBER: _____

COC NUMBER: _____ SIGNATURE: _____ DATE SIGNED: _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4-25-07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW14A (BS-45) Continued
WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER
WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER
SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME: 1200	DATE: 4/25/07

PURGE METHOD: ☐ PUMP ☐ BAILER
DEPTH TO WATER: _____ T/ PVC
DEPTH TO BOTTOM _____ T/ PVC
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS
VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS
COLOR: _____ ODOR: _____
TURBIDITY: _____
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: 7.50 SU CONDUCTIVITY: 881 umhos/cm
ORP: -59 mv DO: 3.40 mg/L
TURBIDITY: >1000 NTU
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY
TEMPERATURE: 12.6 °C OTHER: _____
COLOR: Greyish ODOR: None
FILTRATE (0.45 um) ☐ YES ☒ NO
FILTRATE COLOR: _____ FILTRATE ODOR: _____
QC SAMPLE: ☐ MS/MSD ☐ DUP- _____
COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ~~OR L~~)
1148	1100	7.50	852	-31	4.02	>1000	12.5		~~INITIAL~~
1151	1100	7.50	867	-33	3.89	>1000	12.5		
1154	1100	7.48	880	-35	4.28	>1000	12.6		
1157	1100	7.49	882	-47	4.05	>1000	12.6		
1200	1100	7.50	881	-59	3.40	✓	12.6		~520 ?
		✓	✓	✓	high?		✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	5 VOA	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Courier DATE SHIPPED: 4/26/07 AIRBILL NUMBER: —
COC NUMBER: CT Labs SIGNATURE: Nathaniel R [signature] DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4/25/07	BY: DATE:

SAMPLE ID: GDMW14A (45-55) ~~145-155~~ WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [X] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

100 gal H_2O lost during drilling

PURGING	TIME: 1235	DATE: 4/28/07	SAMPLE	TIME: 1316	DATE: 4/25/07

PURGE METHOD: [X] PUMP [ ] BAILER	PH: 7.23 SU CONDUCTIVITY: 1459 umhos/cm
	ORP: -123 mv DO: 0.30 mg/L
DEPTH TO WATER: ~0.5 ~~T/ PVC~~ ft bgs	TURBIDITY: 16.8 NTU
DEPTH TO BOTTOM _____ T/ PVC	[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY
WELL VOLUME: _____ [ ] LITERS [ ] GALLONS	TEMPERATURE: 10.7 °C OTHER:
VOLUME REMOVED: 420 [ ] LITERS [X] GALLONS	COLOR: clear ODOR:
COLOR: brown → clear ODOR: none	FILTRATE (0.45 um) [ ] YES [X] NO
TURBIDITY: very to clear	FILTRATE COLOR: _____ FILTRATE ODOR: _____
[ ] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY	QC SAMPLE: [ ] MS/MSD [ ] DUP- _____
DISPOSAL METHOD [ ] GROUND [ ] DRUM [ ] OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1304	8 gpm/100 ml/min	7.23	1459	-160	0.43	27.8	10.9	NM	~~INITIAL~~ 300
1307	↓	7.22	1460	-119	0.31	26.1	10.7	↓	330
1310		7.23	1462	-118	0.34	37.1	10.7		360
1313		7.23	1457	-120	0.33	19.4	10.6		390
1316		7.23	1459	-123	0.30	16.8	10.7		420 GAL
		✓	✓	✓	✓	✓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	JI VOA	A	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD:	Courier	DATE SHIPPED:	4/26/07	AIRBILL NUMBER:	—
COC NUMBER:	CT Labs	SIGNATURE:	[signature]	DATE SIGNED:	5/11/07

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT
Project Contact: Ken Quinn
Telephone: 608 831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: T Silverman / N Kill

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT, Inc.
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260 3 Low Level VOCs							Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N											
				Fill in Spaces with Bottles per Test											
4/25/07	12:00	G	GDMW14A (35-45)		GW	4							4	A	
4/25/07	13:10	G	GDMW14A (45-55)		GW	4							4	A	
			Trip Blank		W	2									
			Temp Blank												

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/26/07 13:00		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Tom Dunlevy			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody signed & Dated

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TSS DATE: 4/30/07	BY: THC DATE: 9-19-07

SAMPLE ID: GDMW14A (55-65) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

80 gal used during drilling

PURGING	TIME: 1405	DATE: 4/30/07	SAMPLE	TIME: 1455	DATE: 4/30/07

PURGE METHOD: ☒ PUMP 15gpm → 3gpm (while stabilizing) ☐ BAILER

PH: 7.12 SU CONDUCTIVITY: 1514 umhos/cm

ORP: -246 mv DO: 0.25 mg/L

DEPTH TO WATER: ~0.4 ~~T/ PVC~~ ft bgs

TURBIDITY: 10.0 NTU

DEPTH TO BOTTOM 65 ~~T/ PVC~~ ft bgs

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

~~WELL VOLUME:~~ ☐ LITERS ☐ GALLONS

TEMPERATURE: 17.0 °C OTHER:

VOLUME REMOVED: 340 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR:

COLOR: brown → clear ODOR:

~~FILTRATE (0.45 um) ☐ YES ☐ NO~~

TURBIDITY:

~~FILTRATE COLOR: FILTRATE ODOR:~~

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) (1)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1425	150	7.10	1494	-334	0.35	75.3	15.4		~~INITIAL~~ 240
1430	↓	7.13	1506	-332	0.29	44.8	14.7		255
1435		7.13	1509	-308	0.24	25.6	15.8		~~264~~ 270
1440		7.13	1508	-300	0.24	22.0	16.0		~~276~~ 295
1445		7.13	1511	-274	0.24	18.4	16.8		~~288~~ 310
1450		7.12	1513	-248	0.24	14.4	17.0		~~300~~ 325
1455		7.12	1514	-246	0.25	10.0	17.0		~~312~~ 340 GAL
		✓	✓	✓	✓	✓	✓		

(1) Temp increasing due to increasing heat from sun

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/30/07	AIRBILL NUMBER: n/a
COC NUMBER: CT Labs	SIGNATURE: Nathaniel [signature]	DATE SIGNED: 5/11/07

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego
Sampled By: T. Silverman

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Mail Report To: Ken Quinn
Company: RMT Inc
Address:
City/State/Zip:

Invoice To: Accts Payable
Company:
Address:
City/State/Zip:

PO No.

Contract No.

Place Header Sticker Here:
Lab Use Only

Ice Present Yes No

Temperature _____
Initials _____
Date _____ Time _____
Cooler # _____

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	low level VOCs 8260B							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: / Lab ID #
							Fill in Spaces with Bottles per Test													
4/30/07	1455	—	—	G	GDMW14A (55-65)	N		GW	4							4		B	
					Trip Blank				2							2			

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	4/30/07 1910		
Received by:	Date/Time	Received by:	Date/Time

**Matrix
S–Soil A–Air Slg–Sludge M–Misc Waste
GW–Groundwater SW–Surface Water
WW–Wastewater DW–Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

F

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NKK DATE: 5/5/07	BY: THL DATE: 9-19-07

SAMPLE ID: GMW 15A (25-35) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Drillers Est. Less 100 gal

PURGING	TIME: 2 45	DATE: 5/5/07	SAMPLE	TIME: 12 35	DATE: 5/5/07
PURGE METHOD: ☒ PUMP Waterra ☐ BAILER			PH: 6.95 SU	CONDUCTIVITY: 1009 umhos/cm	
			ORP: 1+ mv	DO: 0.76 mg/L	
DEPTH TO WATER: ~23 ~~TOC PVC~~ bgs			TURBIDITY: 12.3 NTU		
DEPTH TO BOTTOM ~35 ~~TOC PVC~~ bgs			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
~~WELL VOLUME:~~ — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.7 °C OTHER: —		
VOLUME REMOVED: 329 ☐ LITERS ☒ GALLONS			COLOR: Colorless ODOR: None		
COLOR: ~~Brownish grey~~ ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~		
☐ NONE ☐ SLIGHT ☒ MODERATE ~~to~~ ☒ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1205	500mL/min	6.75	1010	4mV	1.50	89.7	18.8	✓	INITIAL
1210	1L/min	6.83	1010	2mV	1.09	106	13.9	✓	3L
1215	↓	6.90	1005	2mV	0.91	61.7	13.6	✓	8
1220		6.91	1010	1mV	0.87	27.9	14.0	✓	13
1225		6.92	1009	0mV	0.80	20.9	13.9	✓	18
1230		6.94	1009	1mV	0.75	15.4	13.6	✓	23
1235	↓	6.95	1009	1mV	0.76	12.3	13.7	✓	28 GAL?
		✓	✓	✓	✓	✓	✓		

300 gal +

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	~~A~~ E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 5/5/07 AIRBILL NUMBER: —

COC NUMBER: CTLab 5" SIGNATURE: [signature] DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MW DATE: 5/4/07	BY: THC DATE: 5-14-07

SAMPLE ID: GD MW-10A 165-175 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1300	DATE: 5/4/07

PURGE METHOD: ☒ PUMP 4" Submers. ☐ BAILER

DEPTH TO WATER: NA T/ PVC

DEPTH TO BOTTOM 175 T/ ~~PVC~~ GS

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 385 ☐ LITERS ☒ GALLONS

COLOR: brn ODOR: none

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

150 gal water used during drilling

SAMPLE	~~DATE~~ TIME: 5/4/07	~~TIME~~ DATE: 1610

PH: 8.47 SU CONDUCTIVITY: 547 umhos/cm

ORP: 152 mv DO: 7.41 mg/L

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 19.7 °C OTHER: _____

COLOR: grey/brn ODOR: _____

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS: NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1450	NM	8.45	495	102	1.44	>1000	20.0	NA	~~INITIAL~~ 375 (well dry)
1526	↓	8.92	364	130	9.73	>1000	19.9	↓	375 ← Pump 1st to Dry
1610	↓	8.47	547	152 J	7.41	>1000	A.7	↓	385
			well purged dry 2x prior to sampling.						

Sample

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Couriers DATE SHIPPED: 5/5/07 AIRBILL NUMBER: NA

COC NUMBER: CT Labs SIGNATURE: _____ DATE SIGNED: 5/5/07

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WATER SAMPLE LOG

Sample taken from black pump (Same as MW-13)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MLW DATE: 5/5/07	BY: ~~MLW~~ THB DATE: 9-19-07

SAMPLE ID: GD MW-10A 195-205 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 853	DATE: 5/5/07	SAMPLE	TIME: 1028	DATE: 5/5/07
PURGE METHOD: ☒ PUMP 4" submers. ☐ BAILER			PH: 7.64 SU	CONDUCTIVITY: 876 umhos/cm	
			ORP: -218 mv	DO: 0.23 mg/L	
DEPTH TO WATER: NA T/ PVC			TURBIDITY: 16.0 NTU		
DEPTH TO BOTTOM 205 T/ ~~PVC~~ b.g.s			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.4 °C OTHER:		
VOLUME REMOVED: 540 ☐ LITERS ☒ GALLONS			COLOR: Clear ODOR: None		
COLOR: brn ODOR: none			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: >1000			FILTRATE COLOR: FILTRATE ODOR:		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ ~~DUP~~		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: NA		

150 gal used during drilling inkind

TIME	PURGE RATE (~~ML/MIN~~)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
905	~8.6 gpm	7.55	687	-450	0.44	311	13.8	NA	INITIAL 150 (approx)
920	5 gpm	7.65	762	-174	0.94	238	13.2		275
945	↓	7.63	878	-83	3.01*	85	12.2		400
957	Reduce pump rt to ~1 gpm + begin low flow sampling								↓
958	1 gpm	7.63	874	-94	1.52	27	12.4		450
1003	↓	7.63	874	-94	1.97	28	12.4		455
1008	↓	7.63	876	-93	1.91	NM	12.4		↓ 460
1013	5 gpm**	7.63	875	-177	0.33	NM	12.7		465
1018		7.64	876	-198	0.28	14.3	12.3		490
1023		7.64	876	-211	0.23	15.4	12.3		515
1028	↓	7.64 ✓	876 ✓	-218 ✓	0.23 ✓	16.0 ✓	12.4 ✓	↓	540 ✓

Sample →

* Difficult time clearing air from cell - DO reading taken when line appears clear of bubbles + stable but reading is inconsistent w/ FH.

** Turned pump up to ~5 gpm to get air out of line. ✓

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40 ml	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Courier	DATE SHIPPED: 5/5/07	AIRBILL NUMBER: NA
COC NUMBER: GTLabs	SIGNATURE:	DATE SIGNED: 5/5/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MLW DATE: 5/5/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDMW10A 215-225 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1445	DATE: 5/5/07

PURGE METHOD: ☒ PUMP 4" submers. ☐ BAILER

DEPTH TO WATER: NA T/ PVC

DEPTH TO BOTTOM 225 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 680 ☐ LITERS ☒ GALLONS

COLOR: lt brn ODOR: none

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1553	DATE: 5/5/07

PH: 7.63 SU CONDUCTIVITY: 825 umhos/cm

ORP: -269 mv DO: 0.19 mg/L

TURBIDITY: 1.8 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 14.4 °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP _____

COMMENTS: NA

TIME	PURGE RATE (~~ML/MIN~~) (GPM)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1445	12 gpm	7.66	771	221	5.67	>1000	14.6	NA	INITIAL 0 (approx)
1505	14 gpm	7.62	820	-203	0.38	102	13.6		300
1525	↓	7.61	821	-181	0.19	30.3	12.9		550
1532	4 gpm *	7.60	822	-211	0.23	21.5	13.0		600
1537		7.61	823	-232	0.18	13.3	13.5		620
1542		7.60	823	-238	0.19	5.5	14.1		640
1547		7.62	824	-250	0.17	3.5	14.3		660
1550		7.62	825	-263	0.18	2.4	14.3		~~680~~ 670
1553		7.63	825	-269	0.19	1.8	14.4		680
		✓	✓	✓	✓	↓			

Low flow

MLW 5/5/07 * 4 gpm for sampling

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Courier DATE SHIPPED: 5/5/07 AIRBILL NUMBER: NA

COC NUMBER: CT Labs SIGNATURE: _____ DATE SIGNED: 5/6/07

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: PMT, Inc.
Project Contact: Nate Keller
Telephone: 608 831 4444
Project Name: MSORG EGM Phase II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Minnesota/N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal (RUSH*)
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To:
Company: PMT, Inc.
Address: 744 Heartland Tr.
City/State/Zip: Madison, WI 53717

Invoice To:
Company: SAME
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOCs	SITE PROJECT SCOPE							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
5/4/07	1610	Grab	GDMW-10A 165-175	NA	GW	4	4/9/07							4	B	
5/5/07	1028	Grab	GDMW-10A 195-205	NA	GW	4								4	B	
5/5/07	1553	Grab	ADMW10A 215-225	NA	GW	4								4	B	
5/5/07	1235	Grab	GDMW15A 25-35	NA	GW	4								4	B	
5/5/07	1510	Grab	EQUIP BLANK	NA	QCW	4								4	B	

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/5/07 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Bonded Messenger			

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NLK DATE: 5/5/07	BY: THZ DATE: 9-14-07

SAMPLE ID: GD MW 15A (35-45) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1515	DATE: 5/5/07	SAMPLE	TIME: 1635	DATE: 5/5/07
PURGE METHOD: ☒ PUMP 4" in Sub mersible ☐ BAILER			PH: 7.02 SU	CONDUCTIVITY: 932 umhos/cm	
			ORP: -9* mv	DO: 4.83* mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 12.5 NTU		
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.3 °C OTHER: —		
VOLUME REMOVED: ~100 ☐ LITERS ☒ GALLONS			COLOR: colorless ODOR: None		
COLOR: Brown ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~		
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

Drillers Used NO Water ✓

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP* (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1555	500 mL/min	6.97	928	-29	4.13	28.2	14.6		INITIAL 50
1605		7.00	931	-15	5.87	86.8	14.7		
1610		7.02	933	-9	5.83	32.6	14.5		
1615		7.01	932	-22	2.60	27.0	14.5		20 gal
1620		7.00	933	-11	5.18	18.2	14.8		
1625		7.01	933	-12	4.09	14.6	14.6		
1630		7.00	932	-15	2.96	15.2	14.5		
1635		7.02	932	-9	4.83	12.5	14.3		100 gal ✓
		✓	✓	✓	high	✓ ↓	✓		

*Air in lines could not get to stop ORP & DO Readings questionable DO not used in Stabilization

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	gl	F	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Courier	DATE SHIPPED: 5/6/07	AIRBILL NUMBER: —
COC NUMBER: CTLabs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/6/07	BY: TLR DATE: 9-19-07

SAMPLE ID: GDMW15A (45-55) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est Loss 100 gallons + 1.5 gal/ft 6" 22 ft 465 55 + 3 165

PURGING	TIME: 822	DATE: 5/6/07	SAMPLE	TIME: 936	DATE: 5/6/07

PURGE METHOD: ☒ PUMP 4 in Sub mus. ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 600 ☐ LITERS ☒ GALLONS

COLOR: brown ODOR: None

TURBIDITY:

☒ NONE ☐ SLIGHT ☒ MODERATE to ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 6.94 SU CONDUCTIVITY: 1069 umhos/cm

ORP: 20 mv DO: 0.35 mg/L

TURBIDITY: 5.52 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.1 °C OTHER:

COLOR: colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

Pump @ 5-10 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
900	600 mL/min	6.76	1058	18	2.16	15.2	11.9		INITIAL ~~500~~ NK 50
925		6.87	1065	18	0.52	256	12.0		
930		6.89	1068	19	0.41	11.4	12.0		540
933		6.90	1070	19	0.36	8.07	12.2		
936		~~7.04~~	1069	20	0.35	5.52	12.1		600 GAL
939		6.94	✓	✓	✓	✓	✓		
942		✓							

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	91	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 5/6/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NLK DATE: 5/6/07	BY: THL DATE: 9-19-07

SAMPLE ID: GDUW15A 65-75 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1330	DATE: 5/6/07	SAMPLE	TIME: 1438	DATE: 5/6/07

Est Loss 100 gal

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 505 ☐ LITERS ☐ GALLONS

?

COLOR: Brown → Colorless ODOR: None

TURBIDITY:

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 6.87 SU CONDUCTIVITY: 1550 umhos/cm

ORP: -329 mv DO: 0.15 mg/L

TURBIDITY: 3.41 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.7 °C OTHER:

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1420	700mL/min	6.96	1538	-142	0.41	37.4	13.3	—	INITIAL 400
1423	↓	6.90	1543	-246	0.27	17.0	13.0	—	
1426	↓	6.90	1549	-311	0.20	5.66	13.7	—	450
1429		6.88	1550	-319	0.17	4.53	13.8	—	460
1432		6.87	1551	-333	0.17	3.63	13.5	—	
1435		6.87	1551	-335	0.16	3.97	13.5	—	490
1438		6.87	1550	-329	0.15	3.41	13.7	—	505 GAL
		✓	✓	✓	✓	✓	✓		✓

Pump @ 3-5 gpm

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	SI	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 5/6/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: Nathaniel Kelly DATE SIGNED: 5/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRR DATE: 5/6/07	BY: TH2 DATE: 9-19-07

SAMPLE ID: GPMW15A 75-85 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est Loss 150

PURGING	TIME: 1530	DATE: 5/6/07
PURGE METHOD: ☒ PUMP ☐ BAILER		
DEPTH TO WATER: — T/ PVC		
DEPTH TO BOTTOM — T/ PVC		
WELL VOLUME: — ☐ LITERS ☐ GALLONS		
VOLUME REMOVED 600 ☐ LITERS ☒ GALLONS		
COLOR: Brown → Colorless ODOR: None		
TURBIDITY:		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER		

SAMPLE	TIME: 1655	DATE: 5/6/07
PH: 6.94 SU	CONDUCTIVITY: 1352 umhos/cm	
ORP: -415 mv	DO: 0.14 mg/L	
TURBIDITY: 59.1 NTU		
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 12.3 °C	OTHER:	
COLOR: Colorless	ODOR: None	
FILTRATE (0.45 um) ☐ YES ☒ NO		
FILTRATE COLOR:	FILTRATE ODOR:	
QC SAMPLE: ~~☐ MS/MSD ☐ DUP~~		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1625	600 mL/m	6.98	1342	-56	2.80	3.41	13.0	—	INITIAL
1628		6.97	1350	-115	1.24	6.68	12.8	—	
1631		6.98	1352	-144	1.20	5.94	13.3	—	480
1634		6.96	1354	-170	1.08	11.9	13.8		
1637		6.96	1358	-216	0.90	25.9	14.1		
1640		6.97	1361	-233	0.92	33.5	14.4		
1643		6.98	1363	-244	0.91	360	14.6		
1646		6.98	1363	-437	0.14	271	13.0		510
1649		6.97	1359	-439	0.16	77.7	12.8		
1652		6.96	1354	-464	0.15	60.4	12.5		
1655		6.94	1352	-415	0.14	59.1	12.3		600

Pump @ 2-3 GPM

Increase Pump to 5-6 GPM

470

GAC?

BOTTLES FILLED	PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Courier Messenger	DATE SHIPPED: 5/6/07	AIRBILL NUMBER: —
COC NUMBER: CTLabs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/6/07	BY: TJZ DATE: 9-19-07

SAMPLE ID: GDMW15A 55-65 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Drillers Cost 100gal 32ft x 1.5 50x3 150 450 300gal 12:00

PURGING	TIME: 10:20	DATE: 5/6/07	SAMPLE	TIME: 12:40	DATE: 5/6/07

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 520 [ ] LITERS [X] GALLONS

COLOR: Brown to colorless ODOR: None

TURBIDITY:

[X] NONE [ ] SLIGHT [X] MODERATE to [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 6.93 SU CONDUCTIVITY: 1421 umhos/cm

ORP: -45 mv DO: 5.07* mg/L

TURBIDITY: 8.26 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 12.8 °C OTHER:

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR: FILTRATE ODOR:~~

QC SAMPLE: [ ] MS/MSD [X] DUP 03

COMMENTS:

Pump @ 2-5gpm some surging of pump

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12:25	700ml/min	6.98	1423	-47	3.07	12.4	12.6	—	INITIAL 450
12:28		6.95	1419	-44	5.60	12.2	12.6	X	
12:31		6.94	1420	-50	5.19	10.9	12.6	X	480
12:34		6.93	1418	-47	~~5.86~~ 4.07	9.30	12.6	X	
12:37		6.93	1422	-49	5.15	9.23	12.7	X	~500
12:40		6.93	1421	-45	5.07	8.26	12.8	X	~520
		✓	✓	✓	✓	✓	✓		
					high				

No visible air probe reading ~~[illegible]~~ NR unreasonable values

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
5	40ml	gl	E	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Banded Message DATE SHIPPED: 5/6/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MW DATE: 5/6/07	BY: THL DATE: 9-19-07

SAMPLE ID: GD MW-10A 225-235 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 830	DATE: 5/6/07	SAMPLE	TIME: 915	DATE: 5/6/07
PURGE METHOD: ☒ PUMP 4" Submers. ☐ BAILER			PH: 7.80 SU	CONDUCTIVITY: 815 umhos/cm	
			ORP: -454 mv	DO: 0.21 mg/L	
DEPTH TO WATER: NA T/ PVC			TURBIDITY: 28.9 NTU		
DEPTH TO BOTTOM 235 T/ ~~PVC~~ bgs			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.1 °C OTHER:		
VOLUME REMOVED: 465 ☐ LITERS ☒ GALLONS			COLOR: Clear ODOR: none		
COLOR: Brownish brn ODOR: none			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: >1000			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ ~~DUP~~		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: NA		

15 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
850	15 gpm	7.71	804	-506	0.25	21.4	12.2	NA	~~INITIAL~~ 300
855	3 gpm	7.75	809	-500	0.21	67.7	12.4		375
900	5 gpm	7.76	810	-475	0.21	51.1	13.3		390
905		7.80	814	-466	0.21	29.3	13.3		415
910		7.80	815	-457	0.21	29.2	13.1		440
915		7.80	815	-454	0.21	28.9	13.1		465 GAL
		✓	✓	✓	✓	✓	✓		

Air in line - increased flow to 5 gpm

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3 4	40mL	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Courier DATE SHIPPED: 5/6/07 AIRBILL NUMBER: NA

COC NUMBER: CT Labs. SIGNATURE: _____ DATE SIGNED: 5/6/07

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Rev. 3/2006

Chain of Custody

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Company: RMI Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego EGM II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller / Meredith Westover

CT Laboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Mail Report To:
Company: 744 Heartland Tr
Address:
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Client Special Instructions: Please Send Med. Coolers, Trip/Temp Blanks & 1 box HCl preserved vials to Hotel for Delivery on Monday

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lv/VOCs							Total # of Containers	Preservation*	Lab ID #
5/6/07	9 36	G	GDMW15A (45-55)		GW	4							4	B	
5/5/07	16 35	G	GDMW15A (35-45)		↓	↓							↓	↓	
5/6/07	12 40	G	GDMW15A (55-65)		↓	↓							↓	↓	
5/6/07	11 30	G	Equip Blank Black #2		W	↓							↓	↓	
5/6/07	9 15	G	GDMW10A (225-235)		GW	↓							↓	↓	
5/6/07	—	G	Dup 03		↓	↓							↓	↓	
5/6/07	14 38	G	GDMW15A (65-75)		↓	↓							↓	↓	

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/6/07 1650		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[signature]			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/7/07	BY: TH DATE: 9-19-07

SAMPLE ID: GMW015A 85-95 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est. Loss 150 gal

PURGING	TIME: 715	DATE: 5/7/07	SAMPLE	TIME: 836	DATE: 5/7/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 615 ☐ LITERS ☒ GALLONS

COLOR: Brown/Colorless ODOR: None

TURBIDITY: Stirred up

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

PH: 6.87 SU CONDUCTIVITY: 1485 umhos/cm

ORP: -57 mv DO: 0.17 mg/L

TURBIDITY: 3.02 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.8 °C OTHER: _____

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ _____ ~~FILTRATE ODOR:~~ _____

~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP- _____

COMMENTS:

pump 5-10 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
815	650 ml/min	6.78	1484	-3	0.29	8.77	11.4	—	INITIAL	450
818		6.83	1493	-15	0.26	7.98	11.5			
821		6.84	1481	-22	0.24	7.36	11.5		500	500
824		6.86	1480	-34	0.19	6.81	11.5			
827		6.87	1481	-40	0.19	6.13	11.6			
830		6.89	1482	-47	0.18	4.36	11.7		590	
833		6.88	1483	-53	0.18	3.60	11.8			
836		6.89	1485	-57	0.17	3.02	11.8		615	GAL
839		✓	✓	✓	✓	✓	✓			

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	VOA	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Courier Messenger DATE SHIPPED: 5/7/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG		PREPARED		CHECKED	
PROJECT NUMBER: 7133.03		BY: NLK	DATE: 5/7/07	BY: TH2	DATE: 9-19-07

SAMPLE ID: GDMW15A 95-105 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 9:00	DATE: 5/7/07	SAMPLE	TIME: 11:32	DATE: 5/7/07
PURGE METHOD: [X] PUMP [ ] BAILER			PH: 6.94 SU	CONDUCTIVITY: 1484	umhos/cm
			ORP: -71 mv	DO: 0.13	mg/L
DEPTH TO WATER: — T/ PVC			TURBIDITY: 4.13 NTU		
DEPTH TO BOTTOM — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 14.0 °C	OTHER:	
VOLUME REMOVED: 800 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR:	
COLOR: Brown/Colorless ODOR: None			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) *	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11:00	700	6.97	1472	-57	0.23	7.80	12.9	—	INITIAL 720
11:23		6.96	1477	-66	0.18	5.53	13.4		
11:26		6.94	1480	-70	0.16	5.59	13.8		760
11:29		6.93	1481	-72	0.14	5.14	13.8		
11:32		6.94	1484	-71	0.13	4.13	14.0		800 GAL
11:35		✓	✓	✓	✓	✓	✓		

* Sun is warming hoses

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	E	[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Bonded Messg	DATE SHIPPED: 5/7/07		AIRBILL NUMBER: —		
COC NUMBER: CT Labs	SIGNATURE: [signature]		DATE SIGNED: 5/11/07		

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NJK DATE: 5/4/07	BY: TH DATE: 5-14-07

SAMPLE ID: GDMW15A (105-115) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC (☒ SS) ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Est. Loss 150

PURGING	TIME: 1305	DATE: 5/7/07	SAMPLE	TIME: 1419	DATE: 5/7/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 6.90 SU	CONDUCTIVITY: 1518 umhos/cm	
			ORP: -97 mv	DO: 0.10 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 28.1 NTU		
DEPTH TO BOTTOM _____ T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 16.3 °C	OTHER: —	
VOLUME REMOVED: 475 ☐ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Brown/Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: _____			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
☒ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP: _____		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) *	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1355	600mL	7.05	1494	-54	0.30	4.13	15.4	—	INITIAL 400
1400		6.93	1502	-78	0.13	8.61	15.3	—	430
1405		6.92	1510	-76	0.12	6.83	15.9	—	440
1410		6.91	1517	-83	0.11	58.5	16.4	—	450
1413		6.90	1515	-89	0.10	104	16.2	—	460
1414		6.91	1516	-91	0.10	40.5	16.2	—	470
1419		6.90	1518	-97	0.10	28.1	16.3	—	~475 GAL?
1422		✓	✓	✓	✓	✓	✓		—
1425									

Pump @ 5-10 gpm

Run @ 2-5 gpm

* Sun is warming hose

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	gl	E	☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger	DATE SHIPPED: 5/7/07	AIRBILL NUMBER: —
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/11/07

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Chain of Custody

Page _____ of _____

Company: RMT, Inc.
Project Contact: Nate Keller
Telephone: 608-279-1687
Project Name: Muskego E&M II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller/Meredith Westover

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT, Inc
Address: 744 Heartland TV
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC								Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
5/6/07	1655	G	GDMW15A 75-85		GW	4								4	B	
5/7/07	826	↓	GDMW15A 85-95		↓	↓								↓	↓	
↓	1130	↓	GDMW15A 95-105		↓	↓								↓	↓	
↓	1419	↓	GDMW15A 105-115		↓	↓								↓	↓	
			Trip Blank			2										
			Temp Blank													

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel R Keller	5/7/07 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Bonded Messenger			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: NRK	DATE: 5/7/07	BY: TH2	DATE: 9-19-07

SAMPLE ID: GDMW15A 115-125 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Pulled 5 Loss 125 7 Ton

PURGING	TIME: 3[13]	DATE: 5/7/07	SAMPLE	TIME: 16[20]	DATE: 5/7/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 6.89 SU	CONDUCTIVITY: 1323 umhos/cm	
			ORP: -49 mv	DO: 0.08 mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: 13.7 NTU		
DEPTH TO BOTTOM ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.7 °C	OTHER:	
VOLUME REMOVED: 580 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
16[05]	700 mL	6.89	1303	-56	0.16	23.4	14.5	—	~~INITIAL~~ 450
16[08]		6.88	1307	-59	0.13	22.5	14.9		
16[11]		6.88	1312	-57	0.12	17.7	15.2		490
16[14]		6.88	1317	-54	0.11	15.2	15.2		
16[17]		6.88	1320	-50	0.11	13.7	14.3		560
16[20]		6.89	1323	-49	0.08	13.7	13.7		580 GAL?
		✓	✓	✓	✓	✓	✓		

Pump 5-10 gpm

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 5/7/07	AIRBILL NUMBER: n/a.
COC NUMBER: CT Labs	SIGNATURE: Nathaniel Rich	DATE SIGNED: 5/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/7/07	BY: TH2 DATE: 9-19-07

SAMPLE ID: CDMW154 125-135 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ~~☒ PVC~~ ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Driller Est. Loss 100gal

PURGING	TIME: 1715	DATE: 5/7/07	SAMPLE	TIME: 1806	DATE: 5/7/07
PURGE METHOD: ☒ PUMP 4in Sub. ☐ BAILER			PH: 6.93 SU	CONDUCTIVITY: 1290 umhos/cm	
			ORP: -69 mv	DO: 0.11 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 8.71 NTU		
DEPTH TO BOTTOM 135 T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.3 °C	OTHER:	
VOLUME REMOVED: 470 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: ~~Brown/colorless~~ ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP 04		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

Pump ~10gpm a ?

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1755	500	6.94	1289	-38	0.42	268	15.4	—	INITIAL 350
1800		6.93	1288	-66	0.17	28.9	13.6	—	420
1803		6.93	1289	-67	0.15	13.6	13.4	—	440
1806		6.93	1290	-69	0.11	8.71	13.3	—	470 GAL?
1809		✓	✓	✓	✓	✓	✓		
1812									
1815									

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40ml	g	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/7/07	AIRBILL NUMBER:
COC NUMBER: CT Labs	SIGNATURE: Nathaniel Keller	DATE SIGNED: 5/11/07

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Chain of Custody

Page _____ of _____

Company: RMT-Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego ECM II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT, Inc
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions:
Analyze upon Receipt

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N: 8260B Low Lvl VOC							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test		NJ									
5/7/09	1620	G	GMW15A 115-125		GW	4							4	B	
↓	1800	G	GMW15A 125-135		↓	↓							↓	↓	
↓	—	G	Dup 04		↓	↓							↓	↓	
			Trip Blank												
			Temp Blank												

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/8/09 1900		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
Fed Ex			

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Air Bill 8608 6805

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MLW DATE: 5/8/07	BY: TLH DATE: 5-15-07

SAMPLE ID: MW-8A 45-55 (D) | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1310	DATE: 5/8/07	SAMPLE	TIME: 1430	DATE:

PURGE METHOD: ☒ PUMP 4" Submers. ☐ BAILER

DEPTH TO WATER: NA T/ PVC

DEPTH TO BOTTOM 55 T/ PVC

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 580 ☐ LITERS ☒ GALLONS

COLOR: grey/brn ODOR: None

TURBIDITY: >1000 NTU Pumping Sand

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.38 SU CONDUCTIVITY: umhos/cm

ORP: -201 mv DO: 0.17 mg/L

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 14.6 °C OTHER:

COLOR: grey/brn ODOR: none

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP

COMMENTS: NA

10⁺ gpm purge

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1355	3gpm	7.44	882	-101	0.21	>1000	15.6	NA	~~INITIAL~~ 450
1400	↓	7.44	885	-106	0.19	>1000	15.8		465
1405	4gpm	7.34	892	-142	0.20	>1000	17.9		480
1410		7.37	881	-163	0.16	>1000	16.0		500
1415		7.37	879	-182	0.16	>1000	14.7		520
1420		7.38	880	-194	0.17	>1000	14.4		540
1425		7.38	883	-195	0.16	>1000	14.6		560
1430	↓	7.38	881	-201 J	0.17	>1000	14.6	↓	580 ✓
		✓	✓	✓	✓	✓	✓		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/07	AIRBILL NUMBER: NA FedEx 8612 8808 8120
COC NUMBER: Ct Labs	SIGNATURE:	DATE SIGNED: 5/9/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: MW	DATE: 5/8/07	BY: TH	DATE: 9-19-07

SAMPLE ID: GDMW-8A 65-75 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1610	DATE: 5/8/07	SAMPLE	TIME: 1719	DATE: 5/8/07
PURGE METHOD: ☒ PUMP 4" Submers. ☐ BAILER			PH: 7.53 SU	CONDUCTIVITY: 786 umhos/cm	
			ORP: -325 mv	DO: 0.18 mg/L	
DEPTH TO WATER: NA T/ PVC			TURBIDITY: >1000 NTU		
DEPTH TO BOTTOM 75 T/ ~~PVC~~ BGS			☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		
WELL VOLUME: NA ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.3 °C	OTHER:	
VOLUME REMOVED: 609 ☐ LITERS ☒ GALLONS			COLOR: brn	ODOR: none	
COLOR: brn	ODOR: none		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: >1000 NTU			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: NA		

need 450 gal out

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1645	3 gpm	7.54	785	-343	0.18	>1000	13.9	NA	~~INITIAL~~ 450
1650	↓	7.55	787	-328	0.17	>1000	14.8		465
1655	↓ NM - Fittings blown apt from pressure on line								480
1700	6 gpm*	7.56	771	-338	0.22	>1000	15.7		495
1705	↓	7.55	781	-367	0.20	>1000	13.6		525
1710		7.53	784	-359	0.19	>1000	13.4		555
1713		7.53	785	-342	0.18	>1000	13.1		573
1716		7.53	785	-334	0.19	>1000	13.2		591
1719		7.53	786	-325 J	0.18	>1000	13.3	↓	609 GAL
		✓	✓	✓	✓	✓	✓		

*flow rate ↑ - too much pressure on fittings.

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40ml	Vial	HCl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 5/8/07	AIRBILL NUMBER: FedEx 8612 8808 8126
COC NUMBER: CT Labs	SIGNATURE:	DATE SIGNED: 5/9/07

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Chain of Custody

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Company: RMT
Project Contact: N. Kelley
Telephone: 6089314444
Project Name: HSGRG
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: M. Westara

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal (RUSH*)
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT
Address: 744 Heartland Tr.
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: SAME
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N								Total # of Containers	Preservation*	Lab ID #
						N										
						VOCs										
						Fill in Spaces with Bottles per Test										
5/8/07	1430	Grab	GDMW8A 45-55		GW	4								4	B	
1/	1719	1	GDMW3A 65-75		1	4								4	B	
			Trip Blank		1	2								2	B	

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/8/07 1930		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
Fed Ex			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

2 cust. sand o Dated Air bill # 8612 8808 8120

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: MLW	DATE: 5/9/07	BY: THZ	DATE: 9-19-07

SAMPLE ID: GDMW8A 75-85' WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: ~~7~~ MLW 5/9/07 737	DATE: 5/9/07	SAMPLE	TIME: 844	DATE: 5/9/07

PURGE METHOD: ☒ PUMP 4" Submersible ☐ BAILER

DEPTH TO WATER: NA T/ PVC

DEPTH TO BOTTOM 85 T/ ~~PVC~~ bgs

WELL VOLUME: NA ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 595 ☐ LITERS ☒ GALLONS

COLOR: brn to clear ODOR: none

TURBIDITY: Slight

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.49 SU CONDUCTIVITY: 835 umhos/cm

ORP: -210 mv DO: 0.16 mg/L

TURBIDITY: 19.6 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.1 °C OTHER:

COLOR: Clear ODOR:

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
815	5gpm	7.47	834	-291	0.16	70.8	12.9	NA	~~INITIAL~~ 450
820	↓	7.48	837	-250	0.19	44.7	13.5	↓	475
825		7.48	836	-242	0.18	36.5	13.3		500
830		7.47	835	-227	0.18	34.4	13.6		525
835		7.47	835	-220	0.18	26.3	13.3		550
838		7.48	835	-218	0.16	24.1	13.2		565
841		7.48	834	-213	0.17	22.2	13.2		580
844 ~~849~~	↓	7.49	835	-210 J	0.16	19.6	13.1	↓	595 GAL
		✓	✓	✓	✓	✓	✓		✓

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40ML	Vial	ACl	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Courier	DATE SHIPPED: 5/11/07	AIRBILL NUMBER: —
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/9/07

* "EQUIP BLANK BLACK #3" collected following this sample @ 905

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Chain of Custody

Page _____ of _____

Company Name: AMEC Inc
Project Contact: Nate Keller
Telephone: 608-221-1693
Project Name: Mustego E Gw
Project Number: 7153-03
Project Location: Mustego, WI
Sampled By: Nate Keller Meredith Wesolowski

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Place Header Sticker Here:
Lab Use Only

Ice Present Yes No

Temperature _____
Initials _____
Date _____ Time _____
Cooler # _____

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Contract No.

Turnaround Time
Normal RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	SW6013 Low Level VOC							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: / Lab ID #
								Fill in Spaces with Bottles per Test											
7/9/07	9:05	V		G	E Rinsate Blank Black Kit			GW	4							4		B	
V	8:44			V	GMW08A 75-85			V	4							4		B	
					Trip Blank			W	2							2		B	
					Temp Blank														

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	7/9/07 1700		
Received by: To Sample Cooler	Date/Time	Received by:	Date/Time

**Matrix
S–Soil A–Air Slg–Sludge M–Misc Waste
GW–Groundwater SW–Surface Water
WW–Wastewater DW–Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Two Signed & Dated Custody Seals

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: NRK	DATE: 5/14/07	BY: THz	DATE: 9-19-07

Drillers est. Loss 300 gal between surface & sample

SAMPLE ID: GDMW09 55-65 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [X] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1247	DATE: 5/14/07	SAMPLE	TIME: 1418	DATE: 5/14/07

PURGE METHOD: [X] PUMP 4" Submersible [ ] BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 1000 [ ] LITERS [X] GALLONS

COLOR: grayish/colorless ODOR: None

TURBIDITY:

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.51 SU | CONDUCTIVITY: 1388 umhos/cm

ORP: 30 mv | DO: 0.13 mg/L

TURBIDITY: 14.9 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 15.0 °C | OTHER:

COLOR: Colorless | ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE: [ ] MS/MSD [ ] DUP.~~

COMMENTS:

Pump @ 2-5 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C) *	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1403	600 ml/min	7.49	1351	4	0.22	61.3	18.9		INITIAL 950
1406		7.50	1395	20	0.19	21.2	18.6		960
1409		7.51	1406	24	0.18	13.7	18.8		
1412		7.50	1404	26	0.18	11.6	19.1		
1415		7.51	1391	28	0.13	15.9	14.8		990
1418		7.51	1388	30 J	0.13	14.9	15.0		1000 GAL
1421		✓	✓	✓	✓	✓	✓		

* Black nose warming water; turn of rate to reduce temp.

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	E	[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex | DATE SHIPPED: 5/14/07 | AIRBILL NUMBER: 8612 8808 4695

COC NUMBER: CT Labs | SIGNATURE: [signature] | DATE SIGNED: 5/21/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/14/07	BY: TH2 DATE: 9-19-07

Dallas Est. Lab 100 gal.

SAMPLE ID: GDMW09 65-75 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [ ] PVC [X] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1510	DATE: 5/14/07	SAMPLE	TIME: 1624	DATE: 5/14/07

PURGE METHOD: [X] PUMP 4" Submersible [ ] BAILER

DEPTH TO WATER: ~ T/ PVC

DEPTH TO BOTTOM ____ T/ PVC

WELL VOLUME: ~ [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 360 [ ] LITERS [X] GALLONS

COLOR: lt brown/colorless ODOR: None

TURBIDITY: ____

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.51 SU CONDUCTIVITY: 1414 umhos/cm

ORP: 32 mv DO: 1.75 mg/L

TURBIDITY: 7.35 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 14.3 °C OTHER: ____

COLOR: colorless ODOR: None

~~FILTRATE (0.45 um)~~ [ ] YES [ ] NO

~~FILTRATE COLOR:~~ ____ ~~FILTRATE ODOR:~~ ____

QC SAMPLE: [ ] MS/MSD [X] DUP# 05

COMMENTS:

pumped 5 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)*	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1509	600 mL/m	7.46	1406	15	5.41	6.86	16.3		INITIAL 310
1612		7.46	1399	21	9.45	11.2	16.7		320
1615		7.49	1410	26	6.59	2.19	16.10		330
1618		7.50	1409	27	3.74	9.26	14.4		340
1621		7.52	1410	29	1.40	10.2	14.2		350
1624		7.51	1414	32 J	1.75	7.35	14.3		360 GAL
1627		✓	✓	✓	✓	✓	✓		
1630									

* Sw on Hoses
* DO Bouncing all around due to bubbles, can't reduce them

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40ml	gl	E	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 5/14/07	AIRBILL NUMBER: 861288084695
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/21/07

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Chain of Custody

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Company: RMT Inc
Project Contact: Nate Keller
Telephone: 608-219-1627
Project Name: Muskego ECM II
Project Number: 21503.03
Project Location: Muskego WI
Sampled By: N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal (RUSH*)
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT, Inc
Address: Attn. Ken Quinn
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Analyze upon Receipt

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N								Total # of Containers	Preservation*	Lab ID #
						82608 Low Vol										
5/14/07	1225	G	Equip Blank No #2		W	N								4	B	
	1418		GDMW09 55-65		GW											
	1609		GDMW09 65-75													
	—		Equip Blank													
			VOA Blank													
			Temp Blank													

Fill in Spaces with Bottles per Test

Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/14/07 1915		
Received by: FedEx	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed and AV Bill 8012880811.25

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NLC DATE: 5/15/07	BY: TLK DATE: 5-19-07

SAMPLE ID: BMW09 75-85 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Drillers Est Loss 150 gal

PURGING	TIME: 720	DATE: 5/15/07	SAMPLE	TIME: 902	DATE: 5/15/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME — ☐ LITERS ☐ GALLONS

VOLUME REMOVED 920 ☐ LITERS ☒ GALLONS

COLOR: Brown ODOR: None

TURBIDITY:

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.14 SU CONDUCTIVITY: 1054 umhos/cm

ORP: -128 mv DO: 1.95 mg/L

TURBIDITY: >1000 NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE 13.3 °C OTHER:

COLOR: Brown ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP:

COMMENTS:

Pump @ 2-3 gpm

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU) *	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
850	600ml	2.33	1038	-16	2.42	>1000	13.8	—	INITIAL 480
853	500ml	7.18	1030	-124	2.14	>1000	12.7	—	490
856	↓	7.12	1054	-122	1.86	>1000	13.2	—	500
899		7.19	1047	-116	2.07	>1000	14.2	—	510
900		7.14	1054	-128	1.95	>1000	13.3	—	520 GAL
905		✓	✓	✓	✓	✓	✓		

* V. Turbid causing all readings to bounce

Note probes not checked/calibrated at end of day

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	g	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messenger DATE SHIPPED: 5/15/07 AIRBILL NUMBER: —

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 5/21/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/15/07	BY: JTL DATE: 5-17-07

SAMPLE ID: MW09 85-95 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☒ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

EST (LESS 10 G)

PURGING	TIME: 933	DATE: 5/15/07	SAMPLE	TIME: 1250	DATE: 5/15/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 7.49 SU	CONDUCTIVITY: 777 umhos/cm	
			ORP: -254 mv	DO: 0.34 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 149 NTU		
DEPTH TO BOTTOM — T/ PVC			☑ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 17.9 °C	OTHER:	
VOLUME REMOVED: 361 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Brown/ Colored ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1224	1 gpm	7.47	774	-134	0.92	6.60	16.9	—	INITIAL 340
1232		7.50	776	-173	0.70	18.2	16.8	—	
1235		7.49	776	-202	0.57	24.2	17.0	—	
1238		7.48	777	-212	0.49	61.3	17.2		
1241		7.49	777	-221	0.43	56.6	17.4		
1244		7.45	777	-244	0.37	9.17	17.6		355
1247		7.50	778	-251	0.35	10.6	17.8		
1250		7.49	777	-254	0.34	14.9	17.9		361 G TL
		✓	✓	✓	✓	✓	✓		

1-2 gpm

*Note: probes not checked/calibrated at end of day.

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	G	E	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Bonded Messeng	DATE SHIPPED: 5/15/07	AIRBILL NUMBER: —
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 5/20/07

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego EGM II
Project Number: 7133 03
Project Location: Muskego, WI
Sampled By: N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed ASAP

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT, Inc
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC							Total # of Containers	Preservation*	Lab ID #
5/15/07	9:02	G	GDMW09 75-85		GW	4							4	B	
↓	12:50	↓	GDMW09 85-95		GW	4							4	B	
			Trip Blank												

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/15/07 13:30		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[signature] Messenger			

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #:
Folder #: 59806
Purchase Order #:
Arrival Temperature: See COC

Report Date: 4/23/2007
Date Received: 4/18/2007

Reprint Date:

CTI LAB#: 466991 Sample Description: GDDR-MINI Sampled: 4/17/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	0.13	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 466991 Sample Description: GDDR-MINI Sampled: 4/17/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.84	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	0.12	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	1.5	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	0.52	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.23	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.19	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.76	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 466991 Sample Description: GDDR-MINI Sampled: 4/17/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	0.26	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	79	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467007 Sample Description: GDMW11A (35-45) Sampled: 4/17/2007 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467007 Sample Description: GDMW11A (35-45) Sampled: 4/17/2007 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.14	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.27	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	79	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467008 Sample Description: DRILL WATER 01 Sampled: 4/17/2007 1535

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	1.5	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	0.31	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467008 Sample Description: DRILL WATER 01 Sampled: 4/17/2007 1535

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	1.4	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	*<0.040*	*ug/L*	*0.040*	*0.14*	1			4/21/2007	APG	*EPA 8260B*
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	1.7	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	1.3	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.050	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	*<0.050*	*ug/L*	*0.050*	*0.15*	1			4/21/2007	APG	*EPA 8260B*
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	*<0.026*	*ug/L*	*0.026*	*0.086*	1			4/21/2007	APG	*EPA 8260B*
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.16	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.067	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/21/2007	APG	*EPA 8260B*
1,2 Dichloroethane-d4	86	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 467009 Sample Description: TRIP BLANK Sampled: 4/17/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1	A		4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467009 Sample Description: TRIP BLANK Sampled: 4/17/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	0.076	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	0.77	ug/L	0.15	0.50	1	A		4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	86	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page 1 of 1

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Company: RMT Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: EGM Phase 2
Project Number: 7133.03
Project Location: Muskegon, MI
Sampled By: Nate K & Tom S

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____
*Notify Lab prior to sending in RU samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 5
subject to change without notice.

Folder #: 59806
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To: Ken Quinn
Company: RMT Inc
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N Low Level VOC 8260B VOC								Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
4/17/07	1630	G	GDOR-Mini		W	4								4	A	466991
↓	1610	↓	GDMW11A (35-45)		GW	4								4	↓	467007
↓	1555	↓	Drill water 01		W	4								4	↓	467008
			Trip blank			2										467009

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/17/07 1900		
Received by: To Fed Ex	Date/Time	Received for Laboratory by: [signature]	Date/Time 4/18/07 1100

Ice Present (Yes) No
Temperature 1.1°
Cooler # 3329
1010 4/18/07 yls

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Sign + Dated

D

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 59865
Purchase Order #:
Arrival Temperature: See COC

Report Date: 4/23/2007
Date Received: 4/20/2007

Reprint Date:

CTI LAB#: 467625 Sample Description: GDMW13 (20-25) Sampled: 4/19/2007 1220

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467625 Sample Description: GDMW13 (20-25) Sampled: 4/19/2007 1220

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.088	ug/L	0.050	0.19	1	*		4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.099	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467625 Sample Description: GDMW13 (20-25) Sampled: 4/19/2007 1220

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467626 Sample Description: DRILL WATER 02 Sampled: 4/19/2007 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	0.17	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	1.1	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	1.5	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	0.27	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467626 Sample Description: DRILL WATER 02 Sampled: 4/19/2007 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	1.7	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	1.2	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.065	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.14	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.22	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.10	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	80	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467627 Sample Description: GDMW11A (185-195) Sampled: 4/19/2007 0907

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467627 Sample Description: GDMW11A (185-195) Sampled: 4/19/2007 0907

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.18	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	1.7	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467628 Sample Description: GDMW13 (25-35) Sampled: 4/19/2007 1524

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	0.074	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467628 Sample Description: GDMW13 (25-35) Sampled: 4/19/2007 1524

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.068	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.084	ug/L	0.050	0.19	1	*		4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.25	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.11	ug/L	0.090	0.29	1	*		4/21/2007	APG	EPA 8260B
o-Xylene	0.052	ug/L	0.050	0.16	1	*		4/21/2007	APG	EPA 8260B
Bromofluorobenzene	80	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	78	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467629 Sample Description: GDMW13 (35-45) Sampled: 4/19/2007 1712

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.077	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467629 Sample Description: GDMW13 (35-45) Sampled: 4/19/2007 1712

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	0.089	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.14	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.095	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.092	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467631 Sample Description: TRIP BLANK Sampled: 4/19/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467631 Sample Description: TRIP BLANK Sampled: 4/19/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	0.10	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	0.93	ug/L	0.15	0.50	1	A		4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT Inc.
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller & Tom S.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed 4/21/07

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50 subject to change without notice.

Folder #: 59865
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Mail Report To: Ken Quinn
Company: RMT, Inc.
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717
Invoice To:
Company: As Above
Address:
City/State/Zip:
PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lv/VOC							Total # of Containers	Preservation*	Lab ID #
4/19/07	1220	G	GDMW13 (20-25)		GW	4							4	A	467625
↓	1035	↓	Drill Water O2		NK W	↓							↓	↓	467626
↓	907	↓	GDMW11A (185-195)		GW	↓							↓	↓	467627
4/19/07	1524	G	GDMW13 (25-35)		GW	4							4	A	467628
↓	1712	↓	GDMW13 (35-45		GW	4							4	A	467629
			Trip Blank		W	2							2	B	467631

Fill in Spaces with Bottles per Test

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel [signature]	4/19/07 1950		
Received by: To Fed Ex	Date/Time	Received for Laboratory by: SAZ	Date/Time 4/20/07 1019

Ice Present (Yes) No
Temperature 0.1
Cooler # 3282
4/20/07 0945

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

9

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 59883
Purchase Order #:
Arrival Temperature: See COC

Report Date: 4/23/2007
Date Received: 4/21/2007

Reprint Date:

CTI LAB#: 467747 Sample Description: GDMW13 (45-55) Sampled: 4/20/2007 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467747 Sample Description: GDMW13 (45-55) Sampled: 4/20/2007 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.14	ug/L	0.050	0.19	1	*		4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	0.061	ug/L	0.050	0.16	1	*		4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467747 Sample Description: GDMW13 (45-55) Sampled: 4/20/2007 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 467748 Sample Description: GDMW13 (55-65) Sampled: 4/20/2007 0921

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.096	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467748 Sample Description: GDMW13 (55-65) Sampled: 4/20/2007 0921

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	0.12	ug/L	0.040 *	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.096	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.16	ug/L	0.050 *	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.17	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	0.066	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.24	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.073	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467749 Sample Description: GDMW13 (65-75) Sampled: 4/20/2007 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.11	ug/L	0.060 *	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.11	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.088	ug/L	0.040 *	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467749 Sample Description: GDMW13 (65-75) Sampled: 4/20/2007 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	0.11	ug/L	0.040 *	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.070	ug/L	0.050 *	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.077	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.22	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.17	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	0.40	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.22	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.073	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467750 Sample Description: GDMW13 (75-85) Sampled: 4/20/2007 1209

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.40	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.25	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.084	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.061	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467750 Sample Description: GDMW13 (75-85) Sampled: 4/20/2007 1209

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0 19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	0.090	ug/L	0.040 *	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.11	ug/L	0.050 *	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.066	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.29	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.12	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	0.85	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.16	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.050	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467751 Sample Description: GDMW13 (85-95) Sampled: 4/20/2007 1351

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.34	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.41	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.15	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.049	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467751 Sample Description: GDMW13 (85-95) Sampled: 4/20/2007 1351

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.15	ug/L	0.050	0.18	1	*		4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.052	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.26	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.16	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Trichloroethene	1.3	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.14	ug/L	0.090	0.29	1	*		4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	80	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467752 Sample Description: DUP 01 Sampled: 4/20/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.18	ug/L	0.060 *	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.097	ug/L	0.030 *	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	0.082	ug/L	0.040 *	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467752 Sample Description: DUP 01 Sampled: 4/20/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	0.12	ug/L	0.040 *	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.074	ug/L	0.050 *	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.081	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.20	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.17	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	0.38	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.22	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.075	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467753 Sample Description: GDMW13 (95-105) Sampled: 4/20/2007 1735

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.40	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.27	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.099	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467753 Sample Description: GDMW13 (95-105) Sampled: 4/20/2007 1735

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.13	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.20	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.17	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	1.1	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.13	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467754 Sample Description: TRIP BLANKS Sampled: 4/20/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467754 Sample Description: TRIP BLANKS Sampled: 4/20/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	0.096	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	0.91	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	77	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	83	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467755 Sample Description: GDMW13 105-115 Sampled: 4/21/2007 0806

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.22	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.23	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.077	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467755 Sample Description: GDMW13 105-115 Sampled: 4/21/2007 0806

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.13	ug/L	0.050	0.18	1	*		4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	*<0.15*	*ug/L*	*0.15*	*0.50*	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.18	ug/L	0.050	0.19	1	*		4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.082	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Trichloroethene	0.92	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.097	ug/L	0.090	0.29	1	*		4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	79	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467756 Sample Description: GDMW13 115-125 Sampled: 4/21/2007 0952

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.44	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.23	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.097	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467756 Sample Description: GDMW13 115-125 Sampled: 4/21/2007 0952

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.15	ug/L	0.050	0.18	1	*		4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.18	ug/L	0.050	0.19	1	*		4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.13	ug/L	0.050	0.17	1	*		4/21/2007	APG	EPA 8260B
Trichloroethene	1.2	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467757 Sample Description: GDMW13 125-135 Sampled: 4/21/2007 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	0.31	ug/L	0.060	0.19	1	Q		4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.28	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	0.12	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467757 Sample Description: GDMW13 125-135 Sampled: 4/21/2007 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.17	ug/L	0.050 *	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Ethylbenzene	0.062	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	0.21	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	0.16	ug/L	0.050 *	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	1.4	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	0.15	ug/L	0.090 *	0.29	1			4/21/2007	APG	EPA 8260B
o-Xylene	0.050	ug/L	0.050 *	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	83	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	86	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467758 Sample Description: GDMW13 135-145 Sampled: 4/21/2007 1405

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,1-Dichloroethane	0.29	ug/L	0.060	0.19	1	Q		4/22/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/22/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.30	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
1,2-Dichloropropane	0.13	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/22/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/22/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/22/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/22/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/22/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/22/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467758 Sample Description: GDMW13 135-145 Sampled: 4/21/2007 1405

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/22/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/22/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.18	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/22/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/22/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/22/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/22/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Tetrachloroethene	0.19	ug/L	0.050	0.19	1			4/22/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/22/2007	APG	EPA 8260B
Toluene	0.10	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Trichloroethene	1.4	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/22/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
m & p-Xylene	0.11	ug/L	0.090	0.29	1			4/22/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Bromofluorobenzene	78	% Recovery	72	119	1			4/22/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/22/2007	APG	EPA 8260B
Dibromofluoromethane	83	% Recovery	70	127	1			4/22/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/22/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467759 Sample Description: EQUIP BLANK Sampled: 4/21/2007 1500

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/22/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	0.68	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/22/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/22/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	0.20	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/22/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/22/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/22/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/22/2007	APG	EPA 8260B
Benzene	0.068	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Bromodichloromethane	1.3	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromoform	0.32	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467759 Sample Description: EQUIP BLANK Sampled: 4/21/2007 1500

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/22/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Chloroform	1.4	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dibromochloromethane	1.0	ug/L	0.029	0.096	1			4/22/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Ethylbenzene	1.6	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/22/2007	APG	EPA 8260B
Isopropylbenzene	0.067	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/22/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/22/2007	APG	EPA 8260B
n-Propylbenzene	0.23	ug/L	0.026	0.086	1			4/22/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/22/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/22/2007	APG	EPA 8260B
Toluene	1.5	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Trichloroethene	0.053	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/22/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
m & p-Xylene	5.3	ug/L	0.090	0.29	1			4/22/2007	APG	EPA 8260B
o-Xylene	1.5	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/22/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/22/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/22/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			4/22/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTLaboratories

RMT
Project Name: EGM PHASE II
Project #: 7133.03

Contract #: 2002
Folder #: 59,883

CTI LAB#: 467760 Sample Description: EQUIP BLANK (1/2HP PUMP) Sampled: 4/21/2007 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/22/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/22/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/22/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/22/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/22/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/22/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/22/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/22/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/22/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/22/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Bromodichloromethane	0.68	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Bromoform	0.080	ug/L	0.040	0.12	1			4/22/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/22/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/22/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467760 Sample Description: EQUIP BLANK (1/2HP PUMP) Sampled: 4/21/2007 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	0.28	ug/L	0.10	0.35	1			4/22/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/22/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/22/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Chloroform	0.97	ug/L	0.040	0.15	1			4/22/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dibromochloromethane	0.52	ug/L	0.029	0.096	1			4/22/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Ethylbenzene	0.11	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/22/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/22/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/22/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/22/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/22/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Tetrachloroethene	0.23	ug/L	0.050	0.19	1			4/22/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/22/2007	APG	EPA 8260B
Toluene	0.61	ug/L	0.050	0.17	1			4/22/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/22/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/22/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/22/2007	APG	EPA 8260B
m & p-Xylene	0.31	ug/L	0.090	0.29	1			4/22/2007	APG	EPA 8260B
o-Xylene	0.11	ug/L	0.050	0.16	1			4/22/2007	APG	EPA 8260B
Bromofluorobenzene	80	% Recovery	72	119	1			4/22/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/22/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/22/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/22/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTLaboratories

RMT
Project Name: EGM PHASE II
Project #: 7133.03

Contract #: 2002
Folder #: 59,883

CTI LAB#: 467761 Sample Description: TRIP BLANK Sampled: 4/21/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/21/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/21/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/21/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/21/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/21/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/21/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/21/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/21/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/21/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/21/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/21/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/21/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/21/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 467761 Sample Description: TRIP BLANK Sampled: 4/21/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/21/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/21/2007	APG	EPA 8260B
Chlorobenzene	*<0.060*	*ug/L*	*0.060*	*0.19*	*1*			*4/21/2007*	*APG*	*EPA 8260B*
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/21/2007	APG	EPA 8260B
Chloromethane	0.091	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/21/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Diisopropyl ether	*<0.050*	*ug/L*	*0.050*	*0.15*	*1*			*4/21/2007*	*APG*	*EPA 8260B*
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/21/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/21/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/21/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/21/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/21/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/21/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/21/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/21/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/21/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/21/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/21/2007	APG	EPA 8260B
m & p-Xylene	*<0.090*	*ug/L*	*0.090*	*0.29*	*1*			*4/21/2007*	*APG*	*EPA 8260B*
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/21/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/21/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/21/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/21/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/21/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Markgo
Project Number: 7133.03
Project Location: Markgo, WI
Sampled By: N. Kellerstaas

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Folder #: 59883
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To: Ken Quinn
Company: RMT, Inc
Address: 744 Heartland Tr
/State/Zip: Madison, WI 53717
ice To:
pany: As Above
ress:
/State/Zip:
No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Low Level VOC	Total # of Containers	Preservation*	Lab ID #
			Fill in Spaces with Bottles per Test						
4/20/07	740	G	GDMW13 (45-55)		GW	4	4	A	467747
	901		GDMW13 (55-65)						467748
	1030		GDMW13 (65-75)						467749
	1209		GDMW13 (75-85)						467750
	1351		GDMW13 (85-95)						467751
	—		Dup01						467752
	1735		GDMW13 (95-105)						467753
			Trip Blanks		W	2	2	B	467754

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	4/20/07 19:40		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
		APG	4/21/07 10:40

Ice Present (Yes) No
Temperature 5.6
Cooler # 3340
APG - 4/21/07 1040

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

ykw 4/23/07 0757

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Rev. 3/2006

Chain of Custody

Page _____ of _____

Company:
Project Contact:
Telephone:
Project Name:
Project Number:
Project Location:
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

51883

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:
Please Send 4 more coolers and Trip/Temp Blanks to Nate Keller

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N	8260B Lion Tri/Use							Total # of Containers	Preservation*	Lab ID #
							Fill in Spaces with Bottles per Test									
4/2/07	800	G	GDMW13 105-115		GW	N	4									467755
	952		GDMW13 115-125													467756
	1205		GDMW13 125-135													467757
	1405		GDMW13 135-145													467758
	1500		Equip Black		W											467759
	1520		Equip Blank (½ HPR pump)		W											467760
			Trip Blank		W		1									467761

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/2/07 1600		
Received by: To Bonded Messenger (Courier)	Date/Time	Received for Laboratory by: RJ	Date/Time 4/21/07 18:50

Ice Present Yes No
Temperature 3.4 °C
Cooler # Theirs

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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4/23/07 0757

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 59899
Purchase Order #:
Arrival Temperature: See COC

Report Date: 4/25/2007
Date Received: 4/24/2007

Reprint Date:

CTI LAB#: 468105 Sample Description: GDMW10A(115-125) Sampled: 4/22/2007 0943

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468105 Sample Description: GDMW10A(115-125) Sampled: 4/22/2007 0943

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	0.15	ug/L	0.15 *	0.50	1	B		4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.090	ug/L	0.050 *	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468105 Sample Description: GDMW10A(115-125) Sampled: 4/22/2007 0943

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468107 Sample Description: GDMW10A(125-135) Sampled: 4/22/2007 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468107 Sample Description: GDMW10A(125-135) Sampled: 4/22/2007 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.087	ug/L	0.050	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	0.095	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468108 Sample Description: GDMW10A(135-145) Sampled: 4/22/2007 1303

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	0.059	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468108 Sample Description: GDMW10A(135-145) Sampled: 4/22/2007 1303

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.092	ug/L	0.050	0.19	1	*		4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	0.15	ug/L	0.050	0.17	1	*		4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468109 Sample Description: GDMW10A(145-155) Sampled: 4/22/2007 1510

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468109 Sample Description: GDMW10A(145-155) Sampled: 4/22/2007 1510

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.10	ug/L	0.050	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	78	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468110 Sample Description: DUP 02 Sampled: 4/22/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0 030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468110 Sample Description: DUP 02 Sampled: 4/22/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.091	ug/L	0.050	* 0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468111 Sample Description: GDMW13(145-155) Sampled: 4/22/2007 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	0.36	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.27	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	0.12	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468111 Sample Description: GDMW13(145-155) Sampled: 4/22/2007 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	*<0.040*	*ug/L*	*0.040*	*0.15*	1			*4/24/2007*	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.15	ug/L	0.050	0.18	1	*		4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.18	ug/L	0.050	0.19	1	*		4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	1.2	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	*<0.050*	*ug/L*	*0.050*	*0.18*	1			*4/24/2007*	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	0.12	ug/L	0.090	0.29	1	*		4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468112 Sample Description: GDMW13(155-165) Sampled: 4/22/2007 1509

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	0.31	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1	M		4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.31	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	0.14	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 468112 Sample Description: GDMW13(155-165) Sampled: 4/22/2007 1509

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.20	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	0.059	ug/L	0.050	0.17	1	*		4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	0.44	ug/L	0.15	0.50	1	*		4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.17	ug/L	0.050	0.19	1	*		4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	1.5	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	0.17	ug/L	0.090	0.29	1	*		4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 468113 Sample Description: GDMW13(165-175) Sampled: 4/22/2007 1845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	0.37	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	0.042	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.38	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	0.18	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468113 Sample Description: GDMW13(165-175) Sampled: 4/22/2007 1845

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.20	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	0.064	ug/L	0.050 *	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	2.2	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.19	ug/L	0.050	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	0.099	ug/L	0.050 *	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	1.6	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	0.20	ug/L	0.090 *	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	0.067	ug/L	0.050 *	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	81	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468114 Sample Description: GDMW13(175-185) Sampled: 4/23/2007 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	0.55	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	0.043	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.70	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	0.19	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	0.16	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468114 Sample Description: GDMW13(175-185) Sampled: 4/23/2007 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.28	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	0.054	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.16	ug/L	0.050	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	0.18	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	1.9	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	0.12	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468115 Sample Description: GDMW13(185-195) Sampled: 4/23/2007 1553

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	0.62	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	0.057	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.78	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	0.063	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	0.19	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	0.12	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468115 Sample Description: GDMW13(185-195) Sampled: 4/23/2007 1553

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.29	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	0.14	ug/L	0.050 *	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	0.15	ug/L	0.050 *	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	2.0	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	0.11	ug/L	0.090 *	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	79	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	77	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468146 Sample Description: TRIP BLANK Sampled: 4/23/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/24/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/24/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/24/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/24/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/24/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/24/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/24/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/24/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/24/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/24/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/24/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/24/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/24/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468146 Sample Description: TRIP BLANK Sampled: 4/23/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/24/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/24/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/24/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/24/2007	APG	EPA 8260B
Chloromethane	0.076	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/24/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/24/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/24/2007	APG	EPA 8260B
Methylene chloride	1.1	ug/L	0.15	0.50	1			4/24/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/24/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/24/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/24/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/24/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/24/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/24/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			4/24/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/24/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/24/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/24/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			4/24/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/24/2007	APG	EPA 8260B
Dibromofluoromethane	80	% Recovery	70	127	1			4/24/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	85	% Recovery	68	126	1			4/24/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc.
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: T. Sherman/N. Kehr

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CT Laboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed:
*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50% subject to change without notice.

Folder #: 59899
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Mail Report To: Ken Quinn
Company: RMT
Address:
City/State/Zip: Madison

Invoice To:
Company:
Address:
City/State/Zip:
PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Level VOC	Preservation*	Total # of Containers	Lab ID #
			Fill in Spaces with Bottles per Test						
4/22/07	9:43	G	GDMW10A (115-125)		GW	4	A		468105
	11:05		GDMW10A (125-135)						468107
	13:03		GDMW10A (135-145)						468108
	15:10		GDMW10A (145-155)						468109
	—		Dup 02						468110
	13:00		GDMW13 (145-155)					5	468111
	15:09		GDMW13 (155-165)					4	468112
	18:45		GDMW13 (165-175)					3	468113
4/23/07	11:35		GDMW13 (175-185)					2	468114
	15:53		GDMW13 (185-195)					1	468115
4/23/07			Tripblank			2			468116

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	4/24/07 2000		
Received by: TO FedEx	Date/Time	Received for Laboratory by: SAZ	Date/Time 4/24/07 1007

Ice Present Yes No
Temperature 3.1
Cooler # SAZ 3320
4/24/07 0955

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

L91

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 59977
Purchase Order #:
Arrival Temperature: See COC

Report Date: 4/30/2007
Date Received: 4/27/2007

Reprint Date:

CTI LAB#: 468944 Sample Description: GDMW14A(35-45) Sampled: 4/25/2007 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/29/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1	M,Q		4/29/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1	M		4/29/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/29/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/29/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1	M,Q		4/29/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1	M		4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468944 Sample Description: GDMW14A(35-45) Sampled: 4/25/2007 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/29/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/29/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/29/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/29/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/29/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/29/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Methylene chloride	0.55	ug/L	0.15	0.50	1	A,B		4/29/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/29/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/29/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Tetrachloroethene	0.061	ug/L	0.050	0.19	1			4/29/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/29/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		4/29/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 468944 Sample Description: GDMW14A(35-45) Sampled: 4/25/2007 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Bromofluorobenzene	75	% Recovery	72	119	1			4/29/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/29/2007	APG	EPA 8260B
Dibromofluoromethane	85	% Recovery	70	127	1			4/29/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/29/2007	APG	EPA 8260B

CTI LAB#: 468945 Sample Description: GDMW14A(45-55) Sampled: 4/25/2007 1316

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/29/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1	Q		4/29/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/29/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/29/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1	Q		4/29/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/29/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/29/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/29/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/29/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 468945 Sample Description: GDMW14A(45-55) Sampled: 4/25/2007 1316

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/29/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/29/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.23	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/29/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Methylene chloride	0.50	ug/L	0.15	0.50	1			4/29/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/29/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/29/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/29/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/29/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		4/29/2007	APG	EPA 8260B
Vinyl chloride	0.62	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/29/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Bromofluorobenzene	77	% Recovery	72	119	1			4/29/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			4/29/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/29/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468946 Sample Description: TRIP BLANK Sampled: 4/25/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			4/29/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			4/29/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1	Q		4/29/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			4/29/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			4/29/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			4/29/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1	Q		4/29/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			4/29/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			4/29/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			4/29/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			4/29/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			4/29/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			4/29/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			4/29/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			4/29/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 468946 Sample Description: TRIP BLANK Sampled: 4/25/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			4/29/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			4/29/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			4/29/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			4/29/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			4/29/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			4/29/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			4/29/2007	APG	EPA 8260B
Methylene chloride	3.5	ug/L	0.15	0.50	1	A,B		4/29/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			4/29/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			4/29/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			4/29/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			4/29/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			4/29/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			4/29/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		4/29/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			4/29/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			4/29/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			4/29/2007	APG	EPA 8260B
Bromofluorobenzene	76	% Recovery	72	119	1			4/29/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			4/29/2007	APG	EPA 8260B
Dibromofluoromethane	82	% Recovery	70	127	1			4/29/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	79	% Recovery	68	126	1			4/29/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Solid sample results reported on a Dry Weight Basis

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego WI
Sampled By: T. Silverman / N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Laboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 59977
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Mail Report To:
Company: RMT, Inc
Address:
/State/Zip:
ice To:
npany:
lress:
/State/Zip:
No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260 B Low Level VOCs								Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
4/25/07	12:00	G	GDMW14A (35-45)		GW	4								4	A	468944
4/25/07	13:16	G	GDMW14A (45-55)		GW	4								4	A	468945
			Trip Blank		W	2										468946
			Temp Blank													

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	4/26/07 13:00		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Dunlaps		SAZ	4/27/07 0551

Ice Present (Yes) No
Temperature 2.0
Cooler # SAZ
4/27/07 0845

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

177

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60019
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/2/2007
Date Received: 5/1/2007

Reprint Date:

CTI LAB#: 469455 Sample Description: GDMW14A(55-65) Sampled: 4/30/2007 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/1/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/1/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/1/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/1/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/1/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/1/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/1/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/1/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/1/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/1/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
2-Butanone	1.2	ug/L	0.50	1.7	1			5/1/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 469455 Sample Description: GDMW14A(55-65) Sampled: 4/30/2007 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/1/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/1/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/1/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/1/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/1/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/1/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/1/2007	APG	EPA 8260B
Chloromethane	0.14	ug/L	0.050 *	0.17	1			5/1/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/1/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.24	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/1/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/1/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/1/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/1/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1	M		5/1/2007	APG	EPA 8260B
Tetrachloroethene	0.054	ug/L	0.050 *	0.19	1			5/1/2007	APG	EPA 8260B
Tetrahydrofuran	1.0	ug/L	1.0 *	3.3	1			5/1/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/1/2007	APG	EPA 8260B
Vinyl chloride	0.95	ug/L	0.018	0.060	1			5/1/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/1/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 469455 Sample Description: GDMW14A(55-65) Sampled: 4/30/2007 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Bromofluorobenzene	81	% Recovery	72	119	1			5/1/2007	APG	EPA 8260B
d8-Tofuene	79	% Recovery	63	118	1			5/1/2007	APG	EPA 8260B
Dibromofluoromethane	83	% Recovery	70	127	1			5/1/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			5/1/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 469463 Sample Description: TRIP BLANK Sampled: 4/30/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/1/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/1/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/1/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/1/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/1/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/1/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/1/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/1/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/1/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/1/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/1/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/1/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/1/2007	APG	EPA 8260B
Acetone	2.1	ug/L	1.3	4.5	1			5/1/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/1/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/1/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/1/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/1/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 469463 Sample Description: TRIP BLANK Sampled: 4/30/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/1/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/1/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/1/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/1/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/1/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/1/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/1/2007	APG	EPA 8260B
Methylene chloride	2.0	ug/L	0.15	0.50	1	B		5/1/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/1/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/1/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/1/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/1/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/1/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/1/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/1/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/1/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/1/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/1/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/1/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/1/2007	APG	EPA 8260B
Dibromofluoromethane	85	% Recovery	70	127	1			5/1/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			5/1/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2003

Chain of Custody

Page 1 of 1

Company Name: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego
Sampled By: T. Silverman

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Folder #: 60019
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Ice Present (Yes) No
Temperature 1.6°
Initials PMC
Date 05-01-07 Time 0957
Cooler # 3301

Mail Report To: Ken Quinn
Company: RMT Inc
Address:
City/State/Zip:

Invoice To: Accts Payable
Company:
Address:
City/State/Zip:

PO No.

Contract No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other

Turnaround Time
Normal RUSH* Date Needed
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	1,2 DCA VOCs 8260B							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: / Lab ID #
Fill in Spaces with Bottles per Test																			
4/30/07	1455	—	—	G	GDMW14A (55-65)	N		GW	4							4		B	466455
					Trip Blank				2							2			466423

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	4/30/07 1910		
Received by:	**Date/Time**	**Received by:**	**Date/Time**
		SAZ	5/1/07 1001

**Matrix
S-Soil A-Air Slg-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60121
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/7/2007
Date Received: 5/5/2007

Reprint Date:

CTI LAB#: 470259 Sample Description: GDMW-10A 165-175 Sampled: 5/4/2007 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 470259 Sample Description: GDMW-10A 165-175 Sampled: 5/4/2007 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	8.6	ug/L	1.3	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	0.11	ug/L	0.040 *	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	0.31	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	0.11	ug/L	0.040 *	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Carbon disulfide	0.11	ug/L	0.10 *	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	0.28	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	0.31	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	0.33	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	0.38	ug/L	0.15 *	0.50	1	B		5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Tetrachloroethene	0.20	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	0.40	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470259 Sample Description: GDMW-10A 165-175 Sampled: 5/4/2007 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	82	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	58	% Recovery	63	118	1	S		5/5/2007	APG	EPA 8260B
Dibromofluoromethane	63	% Recovery	70	127	1	S		5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470260 Sample Description: GDMW-10A 195-205 Sampled: 5/5/2007 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470260 Sample Description: GDMW-10A 195-205 Sampled: 5/5/2007 1028

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	0.17	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			5/5/2007	APG	EPA 8260B
Dibromofluoromethane	88	% Recovery	70	127	1			5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470261 Sample Description: GDMW-10A 215-225 Sampled: 5/5/2007 1553

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470261 Sample Description: GDMW-10A 215-225 Sampled: 5/5/2007 1553

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	0.17	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	0.19	ug/L	0.15	0.50	1	B		5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1	M		5/5/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	87	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/5/2007	APG	EPA 8260B
Dibromofluoromethane	90	% Recovery	70	127	1			5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	85	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470262 Sample Description: GDMW-15 25-35 Sampled: 5/5/2007 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	0.41	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	0.081	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.54	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	2.5	ug/L	1.3	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470262 Sample Description: GDMW-15 25-35 Sampled: 5/5/2007 1235

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	0.16	ug/L	0.050 *	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.087	ug/L	0.050 *	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	0.21	ug/L	0.15 *	0.50	1	B		5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	0.98	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/5/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470263 Sample Description: EQUIP BLANK Sampled: 5/5/2007 1510

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	2.0	ug/L	1.3	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	1.4	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	0.44	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470263 Sample Description: EQUIP BLANK Sampled: 5/5/2007 1510

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	1.6	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	0.17	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	1.2	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	0.55	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	0.20	ug/L	0.15 *	0.50	1	B		5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	0.085	ug/L	0.026 *	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	0.81	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	1.1	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B
o-Xylene	0.36	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	77	% Recovery	63	118	1			5/5/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470264 Sample Description: TRIP BLANK Sampled: 5/5/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/5/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/5/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/5/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/5/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/5/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/5/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/5/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/5/2007	APG	EPA 8260B
Acetone	1.9	ug/L	1.3 *	4.5	1			5/5/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/5/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/5/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/5/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/5/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470264 Sample Description: TRIP BLANK Sampled: 5/5/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/5/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/5/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/5/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/5/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/5/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/5/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/5/2007	APG	EPA 8260B
Methylene chloride	2.2	ug/L	0.15	0.50	1	B		5/5/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/5/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/5/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/5/2007	APG	EPA 8260B
Tetrahydrofuran	1.4	ug/L	1.0	3.3	1			5/5/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/5/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/5/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/5/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/5/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/5/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/5/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/5/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/5/2007	APG	EPA 8260B
Dibromofluoromethane	88	% Recovery	70	127	1			5/5/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	84	% Recovery	68	126	1			5/5/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page 1 of 1

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Company: RMT, Inc.
Project Contact: Nate Keller
Telephone: 608 831 4444
Project Name: MSGRG EGM Phase II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: M. Westover / N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround ~~Time~~
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%
subject to change without notice.

Folder #: 60121
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To:
Company: RMT, Inc.
Address: 744 Heartland Tr
ity/State/Zip: Madison, WI 53717

voice To:
ompany: SAME
ddress:
ty/State/Zip:
) No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N N

SEE PROJECT SCOPE

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOCs							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test											
5/4/07	1610	Grab	GDMW-10A 165-175	NA	GW	~~3~~ 4							4	B	470259
5/5/07	1028	Grab	GDMW-10A 195-205	NA	GW	4							4	B	470260
5/5/07	1553	Grab	GDMW10A ~~20~~ 215-225	NA	GW	4							4	B	470261
5/5/07	1235	Grab	GDMW15A 25-35	NA	GW	4							4	B	470262
5/5/07	1510	Grab	EQUIP BLANK	NA	QCW	4							4	B	470263
5/5/7			Trip Blank	NA	TB	2							2	B	470264

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/5/07 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Bonded Messenger		RD	5/5/07 18:30

Ice Present Yes No
Temperature 3.3 °C
Cooler # Theirs

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

201

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60122
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/7/2007
Date Received: 5/7/2007

Reprint Date:

CTI LAB#: 470265 Sample Description: GDMW15A (45-55) Sampled: 5/6/2007 0936

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/6/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dichloroethane	0.082	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.13	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/6/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/6/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470265 Sample Description: GDMW15A (45-55) Sampled: 5/6/2007 0936

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/6/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/6/2007	APG	EPA 8260B
Acetone	3.4	ug/L	1.3 *	4.5	1			5/6/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
n-Butylbenzene	<0 030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/6/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Chloroethane	0.42	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
Chloromethane	0.099	ug/L	0.050 *	0.17	1			5/6/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/6/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.27	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/6/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Methylene chloride	0.35	ug/L	0.15 *	0.50	1	A,B		5/6/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/6/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/6/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/6/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/6/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Trichlorofluoromethane	0.10	ug/L	0.050 *	0.18	1			5/6/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/6/2007	APG	EPA 8260B
Vinyl chloride	0.67	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470265 Sample Description: GDMW15A (45-55) Sampled: 5/6/2007 0936

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/6/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			5/6/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/6/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			5/6/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470266 Sample Description: GDMW15A (35-45) Sampled: 5/5/2007 1635

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethane	0.27	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/6/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dichloroethane	0.094	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.39	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/6/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/6/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/6/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/6/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/6/2007	APG	EPA 8260B
Acetone	3.6	ug/L	1.3	4.5	1			5/6/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 470266 Sample Description: GDMW15A (35-45) Sampled: 5/5/2007 1635

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/6/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Chloroethane	0.38	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
Chloromethane	0.18	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/6/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.16	ug/L	0.050 *	0.18	1			5/6/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/6/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Methylene chloride	0.36	ug/L	0.15 *	0.50	1	A,B		5/6/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/6/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/6/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1	M		5/6/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/6/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/6/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/6/2007	APG	EPA 8260B
Vinyl chloride	0.30	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/6/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/6/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			5/6/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/6/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470267 Sample Description: GDMW15A (55-65) Sampled: 5/6/2007 1240

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/6/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/6/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/6/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/6/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/6/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/6/2007	APG	EPA 8260B
Acetone	3.7	ug/L	1.3	4.5	1			5/6/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470267 Sample Description: GDMW15A (55-65) Sampled: 5/6/2007 1240

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/6/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Chloroethane	0.32	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
Chloromethane	0.20	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/6/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.42	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/6/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Methylene chloride	0.35	ug/L	0.15 *	0.50	1	A,B		5/6/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/6/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/6/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/6/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/6/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Trichlorofluoromethane	0.11	ug/L	0.050 *	0.18	1			5/6/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/6/2007	APG	EPA 8260B
Vinyl chloride	1.0	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/6/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/6/2007	APG	EPA 8260B
d8-Toluene	75	% Recovery	63	118	1			5/6/2007	APG	EPA 8260B
Dibromofluoromethane	87	% Recovery	70	127	1			5/6/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	82	% Recovery	68	126	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470268 Sample Description: EQUIP BLANK BLACK #2 Sampled: 5/6/2007 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/6/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/6/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/6/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/6/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/6/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/6/2007	APG	EPA 8260B
Acetone	2.5	ug/L	1.3	4.5	1			5/6/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Bromodichloromethane	1.2	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromoform	0.37	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470268 Sample Description: EQUIP BLANK BLACK #2 Sampled: 5/6/2007 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	0.11	ug/L	0.10 *	0.35	1			5/6/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Chloroform	1.3	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
Chloromethane	0.12	ug/L	0.050 *	0.17	1			5/6/2007	APG	EPA 8260B
Dibromochloromethane	1.0	ug/L	0.029	0.096	1			5/6/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/6/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Methylene chloride	0.26	ug/L	0.15 *	0.50	1	A,B		5/6/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/6/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/6/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/6/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/6/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/6/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/6/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/6/2007	APG	EPA 8260B
d8-Toluene	68	% Recovery	63	118	1			5/6/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/6/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	85	% Recovery	68	126	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470269 Sample Description: GDMW10A (225-235) Sampled: 5/6/2007 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	2.4	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470269 Sample Description: GDMW10A (225-235) Sampled: 5/6/2007 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.066	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.39	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	0.15	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/7/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470270 Sample Description: DUP03 Sampled: 5/6/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	4.2	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470270 Sample Description: DUP03 Sampled: 5/6/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	0.31	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.16	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.42	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.43	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	0.11	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	0.12	ug/L	0.050 *	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/7/2007	APG	EPA 8260B
Vinyl chloride	1.0	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	75	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	90	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470271 Sample Description: GDMW15A (65-75) Sampled: 5/6/2007 1438

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	0.055	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.10	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	3.5	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470271 Sample Description: GDMW15A (65-75) Sampled: 5/6/2007 1438

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	0.45	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.21	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.50	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.31	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	0.16	ug/L	0.050 *	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/7/2007	APG	EPA 8260B
Vinyl chloride	1.3	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	86	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	88	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	80	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470272 Sample Description: TRIP BLANK Sampled: 5/6/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/6/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/6/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/6/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/6/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/6/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/6/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/6/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/6/2007	APG	EPA 8260B
Acetone	2.3	ug/L	1.3	4.5	1			5/6/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/6/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/6/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/6/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/6/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470272 Sample Description: TRIP BLANK Sampled: 5/6/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/6/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/6/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/6/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/6/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/6/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/6/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/6/2007	APG	EPA 8260B
Methylene chloride	2.6	ug/L	0.15	0.50	1	A,B		5/6/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/6/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/6/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/6/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/6/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/6/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/6/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/6/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/6/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/6/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/6/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/6/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/6/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/6/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	81	% Recovery	68	126	1			5/6/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: RMT Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego EGM II
Project Number: 7123.03
Project Location: Muskego, WI
Sampled By: Nate Keller / Meredith Weston

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CT Laboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 60122
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To:
Company: 744 Heartland Tr
Address:
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions: Please Send Med. Coders, Trip/Temp Blanks & 1 box HCl preserved vials to Hotel for Delivery on Monday

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	PVOCs Low Level VOCs							Total # of Containers	Preservation*	Lab ID #
			Filt? Y/N			N									
			Fill in Spaces with Bottles per Test												
5/6/07	9:36	G	GDMW15A (45-55)		GW	4							4	B	470265
5/5/07	16:35	G	GDMW15A (35-45)		↓										470266
5/6/07	12:40	G	GDMW15A (55-65)		↓										470267
5/6/07	11:30	G	Equip Blank Black #2		W										470268
5/6/07	9:15	G	GDMW10A (225-235)		GW										470269
5/6/07	—	G	Dup03		↓	↓							↓	↓	470270
5/6/07	14:38	G	GDMW15A (65-75)		↓	↓							↓	↓	470271
5/6/7			Trip Blank		TB	2							2 @ RMT 05-07-07		470272

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/6/07 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Booked Carrier		RS	5/6/07 18:50

Ice Present (Yes) No
Temperature 3.1 °C
Cooler # 3229

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60133
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/9/2007
Date Received: 5/7/2007

Reprint Date:

CTI LAB#: 470373 Sample Description: GDMW15A 75-85 Sampled: 5/6/2007 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	0.19	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	0.86	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	1.6	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	0.10	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470373 Sample Description: GDMW15A 75-85 Sampled: 5/6/2007 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	3.1	ug/L	1.3 *	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	0.63	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.097	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.49	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	0.088	ug/L	0.050 *	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.35	ug/L	0.15 *	0.50	1	B,A		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	0.13	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	0.14	ug/L	0.050 *	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/7/2007	APG	EPA 8260B
Vinyl chloride	1.0	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470373 Sample Description: GDMW15A 75-85 Sampled: 5/6/2007 1655

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	88	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

CTI LAB#: 470374 Sample Description: GDMW15A 85-95 Sampled: 5/7/2007 0836

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	0.33	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.36	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	3.1	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470374 Sample Description: GDMW15A 85-95 Sampled: 5/7/2007 0836

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	0.54	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.13	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.55	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	0.069	ug/L	0.050 *	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.41	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	0.17	ug/L	0.050 *	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/7/2007	APG	EPA 8260B
Vinyl chloride	1.4	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	86	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470375 Sample Description: GDMW15A 95-105 Sampled: 5/7/2007 1132

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	2.3	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470375 Sample Description: GDMW15A 95-105 Sampled: 5/7/2007 1132

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	*<0.040*	*ug/L*	*0.040*	*0.14*	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.17	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.44	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	*<0.080*	*ug/L*	*0.080*	*0.28*	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.33	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1	M		5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	*<0.050*	*ug/L*	*0.050*	*0.17*	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/7/2007	APG	EPA 8260B
Vinyl chloride	0.63	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470376 Sample Description: GDMW15A 105-115 Sampled: 5/7/2007 1419

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	1.6	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470376 Sample Description: GDMW15A 105-115 Sampled: 5/7/2007 1419

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	0.16	ug/L	0.050 *	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.44	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	0.36	ug/L	0.15 *	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/7/2007	APG	EPA 8260B
Vinyl chloride	1.0	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	90	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470377 Sample Description: TRIP BLANK Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/7/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/7/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/7/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/7/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/7/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/7/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/7/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/7/2007	APG	EPA 8260B
Acetone	2.9	ug/L	1.3	4.5	1			5/7/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/7/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/7/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/7/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/7/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470377 Sample Description: TRIP BLANK Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/7/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/7/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/7/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/7/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/7/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/7/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/7/2007	APG	EPA 8260B
Methylene chloride	3.3	ug/L	0.15	0.50	1	A,B		5/7/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/7/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/7/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/7/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/7/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/7/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/7/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/7/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/7/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/7/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/7/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/7/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			5/7/2007	APG	EPA 8260B
Dibromofluoromethane	87	% Recovery	70	127	1			5/7/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	83	% Recovery	68	126	1			5/7/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	*Holding time exceeded.*
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Company: RMT, Inc.
Project Contact: Nate Keller
Telephone: 608-274-1687
Project Name: Muskego EGM II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller/Meredith Westover

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUS samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 5
subject to change without notice.

Folder #: 60133
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To:
Company: RMT, Inc
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: As Above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC								Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test												
5/6/07	1655	G	GDMW15A 75-85		GW	4								4	B	470373
5/7/07	836	↓	GDMW15A 85-95		↓	↓								↓	↓	470374
↓	1132	↓	GDMW15A 95-105		↓	↓								↓	↓	470375
↓	1419	↓	GDMW15A 105-115		↓	↓								↓	↓	470376
			Trip Blank			2										470377
			Temp Blank													

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/7/07 1660		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Bonded Messenger		[signature]	5/7/07 18:20

Ice Present (Yes) No
Temperature 3
Cooler # 3282

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated

jls 5/8/07 0754

235

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60141
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/9/2007
Date Received: 5/8/2007

Reprint Date:

CTI LAB#: 470422 Sample Description: GDMW15A 115-125 Sampled: 5/7/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/8/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/8/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/8/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470422 Sample Description: GDMW15A 115-125 Sampled: 5/7/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/8/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/8/2007	APG	EPA 8260B
Acetone	2.5	ug/L	1.3 *	4.5	1			5/8/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/8/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
Chloroethane	0.25	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
Chloromethane	0.20	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/8/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.40	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Diisopropyl ether	*<0.050*	*ug/L*	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/8/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Methylene chloride	0.50	ug/L	0.15	0.50	1	A,B		5/8/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/8/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/8/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/8/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/8/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Trichlorofluoromethane	0.15	ug/L	0.050 *	0.18	1			5/8/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/8/2007	APG	EPA 8260B
Vinyl chloride	1.2	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470422 Sample Description: GDMW15A 115-125 Sampled: 5/7/2007 1620

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/8/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/8/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/8/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/8/2007	APG	EPA 8260B

. Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470423 Sample Description: GDMW15A 125-135 Sampled: 5/7/2007 1806

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethane	0.13	ug/L	0.060	0.19	1	*		5/8/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/8/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dichloroethane	0.24	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.45	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/8/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/8/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/8/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/8/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/8/2007	APG	EPA 8260B
Acetone	3.0	ug/L	1.3	4.5	1	*		5/8/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470423 Sample Description: GDMW15A 125-135 Sampled: 5/7/2007 1806

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/8/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
Chloroethane	0.26	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
Chloromethane	0.20	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/8/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.36	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/8/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Methyl tert-butyl ether	0.066	ug/L	0.050 *	0.15	1			5/8/2007	APG	EPA 8260B
Methylene chloride	0.34	ug/L	0.15 *	0.50	1	A,B		5/8/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/8/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/8/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/8/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/8/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Trichlorofluoromethane	0.17	ug/L	0.050 *	0.18	1			5/8/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/8/2007	APG	EPA 8260B
Vinyl chloride	1.2	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/8/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/8/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			5/8/2007	APG	EPA 8260B
Dibromofluoromethane	93	% Recovery	70	127	1			5/8/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470424 Sample Description: DUP 04 Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethane	0.11	ug/L	0.060	0.19	1	*		5/8/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/8/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dichloroethane	0.26	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	0.51	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/8/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/8/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/8/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/8/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/8/2007	APG	EPA 8260B
Acetone	2.0	ug/L	1.3	4.5	1	*		5/8/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470424 Sample Description: DUP 04 Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/8/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
Chloroethane	0.46	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
Chloromethane	0.20	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/8/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.41	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/8/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Methyl tert-butyl ether	0.080	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Methylene chloride	0.61	ug/L	0.15	0.50	1	A,B		5/8/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/8/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/8/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/8/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/8/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Trichlorofluoromethane	0.18	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/8/2007	APG	EPA 8260B
Vinyl chloride	1.3	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/8/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Bromofluorobenzene	85	% Recovery	72	119	1			5/8/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/8/2007	APG	EPA 8260B
Dibromofluoromethane	94	% Recovery	70	127	1			5/8/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	89	% Recovery	68	126	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470425 Sample Description: TRIP BLANK Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/8/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/8/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/8/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/8/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/8/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/8/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/8/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/8/2007	APG	EPA 8260B
Acetone	3.1	ug/L	1.3	4.5	1			5/8/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/8/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/8/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/8/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/8/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470425 Sample Description: TRIP BLANK Sampled: 5/7/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/8/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/8/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/8/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/8/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/8/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/8/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/8/2007	APG	EPA 8260B
Methylene chloride	2.9	ug/L	0.15	0.50	1	A,B		5/8/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/8/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/8/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/8/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/8/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/8/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/8/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1	Q		5/8/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/8/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/8/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/8/2007	APG	EPA 8260B
Bromofluorobenzene	84	% Recovery	72	119	1			5/8/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/8/2007	APG	EPA 8260B
Dibromofluoromethane	94	% Recovery	70	127	1			5/8/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	92	% Recovery	68	126	1			5/8/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT Inc.
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego EGM II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____
*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 60141
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Mail Report To:
Company: RMT, Inc
Address: 744 Heartland Tr
y/State/Zip: Madison, WI 53717

ice To:
npany: As Above
dress:
y/State/Zip:
No.

Client Special Instructions:
Analyze Upon Receipt

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test											
5/7/07	1620	G	GOMW5A 105-135		GW	4							4	B	470422
↓	1806	G	GOMW15A 125-135		↓	↓							↓	↓	470423
↓	—	G	Dup 04		↓	↓							↓	↓	470424
			Trip Blank												470425
			Temp Blank												

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/7/07 1900		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
To Fed Ex		SAZ	5/8/07 0930

Ice Present (Yes) No
Temperature 2.6
Cooler # SAZ 334
5/8/07 0930

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Air Bill 8612 8808 6805

47

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60164
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/10/2007
Date Received: 5/9/2007

Reprint Date:

CTI LAB#: 470698 Sample Description: GDMW8A 45-55 Sampled: 5/8/2007 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/9/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1	Q		5/9/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/9/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	*<0.019*	*ug/L*	*0.019*	*0.062*	1			*5/9/2007*	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1	Q		5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470698 Sample Description: GDMW8A 45-55 Sampled: 5/8/2007 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/9/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/9/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/9/2007	APG	EPA 8260B
Benzene	0.080	ug/L	0.040 *	0.14	1	M		5/9/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/9/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
Chloromethane	0.16	ug/L	0.050 *	0.17	1	M		5/9/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/9/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/9/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/9/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/9/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/9/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1	M		5/9/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/9/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/9/2007	APG	EPA 8260B
Toluene	0.15	ug/L	0.050 *	0.17	1	Y		5/9/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/9/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

250

CTI LAB#: 470698 Sample Description: GDMW8A 45-55 Sampled: 5/8/2007 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/9/2007	APG	EPA 8260B
d8-Toluene	80	% Recovery	63	118	1			5/9/2007	APG	EPA 8260B
Dibromofluoromethane	95	% Recovery	70	127	1			5/9/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	90	% Recovery	68	126	1			5/9/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470699 Sample Description: GDMW8A 65-75 Sampled: 5/8/2007 1719

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/9/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1	Q		5/9/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/9/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/9/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1	Q		5/9/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/9/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/9/2007	APG	EPA 8260B
Acetone	1.9	ug/L	1.3	4.5	1			5/9/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 470699 Sample Description: GDMW8A 65-75 Sampled: 5/8/2007 1719

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/9/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
Chloromethane	0.19	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/9/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/9/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/9/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/9/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/9/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/9/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/9/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/9/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/9/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Bromofluorobenzene	83	% Recovery	72	119	1			5/9/2007	APG	EPA 8260B
d8-Toluene	75	% Recovery	63	118	1			5/9/2007	APG	EPA 8260B
Dibromofluoromethane	94	% Recovery	70	127	1			5/9/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	88	% Recovery	68	126	1			5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470700 Sample Description: TRIP BLANK Sampled: 5/8/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/9/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/9/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/9/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1	Q		5/9/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/9/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/9/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1	Q		5/9/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/9/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/9/2007	APG	EPA 8260B
Acetone	2.4	ug/L	1.3	4.5	1			5/9/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/9/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/9/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/9/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/9/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 470700 Sample Description: TRIP BLANK Sampled: 5/8/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/9/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/9/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/9/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/9/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/9/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/9/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/9/2007	APG	EPA 8260B
Methylene chloride	1.9	ug/L	0.15	0.50	1			5/9/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/9/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/9/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/9/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/9/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/9/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/9/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/9/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/9/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/9/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/9/2007	APG	EPA 8260B
Bromofluorobenzene	86	% Recovery	72	119	1			5/9/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			5/9/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/9/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	87	% Recovery	68	126	1			5/9/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: RMT
Project Contact: D. Kelley
Telephone: 6088314444
Project Name: MSGRB
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: M. Westaras

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal (RUSH*)
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 60164
Company: RMT
Project: EGM PHASE II
Logged By: SAZ PM: PMI

Mail Report To:
Company: RMT Hand To
Address: 744 Heartland Tr
y/State/Zip: Madison, WI 53717

Ice To:
npany:
dress: SAME
/State/Zip:
No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOCs							Total # of Containers	Preservation*	Lab ID #
			Fill in Spaces with Bottles per Test												
5/8/07	1430	Grab	GDMW8A 45-55		GW	4							4	B	470693
↓	1719	↓	GDMW8A 65-75		↓	4							4	B	470694
			Trip Blank		↓	2							2	B	470702

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	5/8/07 1730		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
To Fed Ex		SAZ	5/9/07 0908

Ice Present Yes 0.9 No
Temperature
Cooler # SAZ 5/9/07 0950

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

2 Cust. Signed & Dated Air bill # 8612 8808 8120

257

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ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60263
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/16/2007
Date Received: 5/15/2007

Reprint Date:

CTI LAB#: 471774 Sample Description: EQUIP BLANK NEW #2 Sampled: 5/14/2007 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/16/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/16/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/16/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/16/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/16/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/16/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/16/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/16/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/16/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/16/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	2.7	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/16/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/16/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/16/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/16/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/16/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/16/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/16/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/16/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	0.88	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/16/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/16/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
2-Butanone	2.7	ug/L	0.50	1.7	1	A,Q		5/16/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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CTI LAB#: 471774 Sample Description: EQUIP BLANK NEW #2 Sampled: 5/14/2007 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/16/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/16/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/16/2007	APG	EPA 8260B
Acetone	3.4	ug/L	1.3 *	4.5	1			5/16/2007	APG	EPA 8260B
Benzene	0.083	ug/L	0.040 *	0.14	1			5/16/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/16/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/16/2007	APG	EPA 8260B
Bromodichloromethane	1.5	ug/L	0.040	0.14	1			5/16/2007	APG	EPA 8260B
Bromoform	0.59	ug/L	0.040	0.12	1			5/16/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/16/2007	APG	EPA 8260B
n-Butylbenzene	0.084	ug/L	0.030 *	0.10	1			5/16/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/16/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/16/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/16/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/16/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
Chloroform	1.6	ug/L	0.040	0.15	1			5/16/2007	APG	EPA 8260B
Chloromethane	0.18	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
Dibromochloromethane	1.6	ug/L	0.029	0.096	1			5/16/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/16/2007	APG	EPA 8260B
Ethylbenzene	11	ug/L	0.25	0.85	5			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/16/2007	APG	EPA 8260B
Isopropylbenzene	0.59	ug/L	0.050	0.17	1			5/16/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/16/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/16/2007	APG	EPA 8260B
Methylene chloride	0.16	ug/L	0.15 *	0.50	1	A,B		5/16/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/16/2007	APG	EPA 8260B
n-Propylbenzene	2.7	ug/L	0.026	0.086	1			5/16/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/16/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/16/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/16/2007	APG	EPA 8260B
Toluene	18	ug/L	0.25	0.85	5			5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/16/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/16/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/16/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/16/2007	APG	EPA 8260B
m & p-Xylene	34	ug/L	0.45	1.5	5			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

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RMT
Project Name: EGM PHASE II
Project #: 7133.03

Contract #: 2002
Folder #: 60,263

CTI LAB#: 471774 *Sample Description:* EQUIP BLANK NEW #2 Sampled: 5/14/2007 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	12	ug/L	0.25	0.80	5			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	97	% Recovery	72	119	1			5/16/2007	APG	EPA 8260B
d8-Toluene	79	% Recovery	63	118	1			5/16/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/16/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	92	% Recovery	68	126	1			5/16/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471775 Sample Description: GDMW09 55-65 Sampled: 5/14/2007 1418

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471775 Sample Description: GDMW09 55-65 Sampled: 5/14/2007 1418

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	0.092	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.53	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	0.083	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	0.095	ug/L	0.050	0.18	1	*		5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	0.72	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	0.12	ug/L	0.090	0.29	1	*		5/15/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	91	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	95	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471776 Sample Description: GDMW09 65-75 Sampled: 5/14/2007 1624

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0 030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471776 Sample Description: GDMW09 65-75 Sampled: 5/14/2007 1624

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	0.085	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.46	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	0.071	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	0.13	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	0.079	ug/L	0.050	0.18	1	*		5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	0.62	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	0.17	ug/L	0.090	0.29	1	*		5/15/2007	APG	EPA 8260B
o-Xylene	0.057	ug/L	0.050	0.16	1	*		5/15/2007	APG	EPA 8260B
Bromofluorobenzene	89	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	96	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471777 Sample Description: DUP 05 Sampled: 5/14/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471777 Sample Description: DUP 05 Sampled: 5/14/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	0.10	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.48	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	0.069	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	0.14	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	0.071	ug/L	0.050	0.18	1	*		5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	0.59	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	0.18	ug/L	0.090	0.29	1	*		5/15/2007	APG	EPA 8260B
o-Xylene	0.063	ug/L	0.050	0.16	1	*		5/15/2007	APG	EPA 8260B
Bromofluorobenzene	89	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	81	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	92	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471778 Sample Description: TRIP BLANK Sampled: 5/14/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471778 Sample Description: TRIP BLANK Sampled: 5/14/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	2.6	ug/L	0.15	0.50	1	A,B		5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/15/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	101	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	83	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	86	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Company: RMT Inc
Project Contact: Nate Keller
Telephone: 608-219-1687
Project Name: Muskego EGM II
Project Number: 2133.03
Project Location: Muskego WI
Sampled By: N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 60263
Company: RMT
Project: EGM PHASE II
Logged By: JLS PM: PM

Mail Report To:
Company: RMT, Inc
Address: Attn. Ken Quinn
City/State/Zip:
...e To:
...pany:
...ress:
.../State/Zip:
...No.

Client Special Instructions:
Analyze upon Receipt

Landfill License Number:

Filt? Y/N N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lvl VOC								Total # of Containers	Preservation*	Lab ID #
5/14/07	1225	G	Equip Blank New #2		W	4								4	B	471774
↓	1418	↓	GDMW09 55-65		GW	↓								↓	↓	471775
↓	1624	↓	GDMW09 65-75		↓	↓								↓	↓	471776
↓	—	↓	Dup 05		↓	↓								↓	↓	471777
			Trip Blank			3										471778
			Temp Blank													

Fill in Spaces with Bottles per Test

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/14/07 1915		
Received by: TO FedEx	Date/Time	Received for Laboratory by: [signature]	Date/Time 5/15/07 1000

Ice Present Yes No
Temperature 2.8
Cooler.# 3289
[signature] 0955 5/15/07

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated Air Bill 861288084695

271

CTLaboratories

1230 Lange Court
Baraboo, WI 53913-3109
Phone: (800) 228-3012
Fax: (608) 356-2766
www.ctlaboratories.com

ANALYTICAL REPORT

RMT
KEN QUINN
744 HEARTLAND TRAIL
MADISON, WI 53717

Project Name: EGM PHASE II
Contract #: 2002
Project #: 7133.03
Folder #: 60275
Purchase Order #:
Arrival Temperature: See COC

Report Date: 5/16/2007
Date Received: 5/15/2007

Reprint Date:

CTI LAB#: 471893 Sample Description: GDMW09 75-85 Sampled: 5/15/2007 0902

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471893 Sample Description: GDMW09 75-85 Sampled: 5/15/2007 0902

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	0.18	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	0.17	ug/L	0.050	0.18	1	*		5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	0.12	ug/L	0.050	0.17	1	*		5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471893 Sample Description: GDMW09 75-85 Sampled: 5/15/2007 0902

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	103	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	74	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	89	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	94	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

275

CTI LAB#: 471894 Sample Description: GDMW09 85-95 Sampled: 5/15/2007 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method

Organic Results

Volatile Organic Compounds 8260 Comments: Carbon disulfide was present in the Continuing Calibration Blank.

1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1		5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1		5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1		5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1		5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1		5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1		5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1		5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1		5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1		5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1		5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1		5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1		5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1		5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1		5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1		5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1		5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1		5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1		5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1		5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1		5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1		5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1		5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1		5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1		5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1		5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1		5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1		5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1		5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1		5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1		5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1		5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1		5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1		5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1		5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1		5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1		5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1		5/15/2007	APG	EPA 8260B

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471894 Sample Description: GDMW09 85-95 Sampled: 5/15/2007 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Volatile Organic Compounds 8260 Comments: Carbon disulfide was present in the Continuing Calibration Blank.										
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Carbon disulfide	0.13	ug/L	0.10 *	0.35	1	B		5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	0.13	ug/L	0.050 *	0.17	1			5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	0.069	ug/L	0.050 *	0.17	1			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	<0.15	ug/L	0.15	0.50	1			5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	0.12	ug/L	0.050 *	0.17	1			5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	0.18	ug/L	0.090 *	0.29	1			5/15/2007	APG	EPA 8260B
o-Xylene	0.058	ug/L	0.050 *	0.16	1			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	98	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	91	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	91	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471895 Sample Description: TRIP BLANK Sampled: 5/15/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
1,1,1-Trichloroethane	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
1,1,2,2-Tetrachloroethane	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
1,1,2-Trichloroethane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,1-Dichloroethene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
1,1-Dichloropropene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichlorobenzene	<0.080	ug/L	0.080	0.25	1			5/15/2007	APG	EPA 8260B
1,2,3-Trichloropropane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2,4-Trichlorobenzene	<0.10	ug/L	0.10	0.33	1			5/15/2007	APG	EPA 8260B
1,2,4-Trimethylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
1,2-Dibromo-3-chloropropane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dibromoethane	<0.030	ug/L	0.030	0.11	1			5/15/2007	APG	EPA 8260B
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
1,2-Dichloroethane	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
cis-1,2-Dichloroethene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
trans-1,2-Dichloroethene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
1,2-Dichloropropane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
cis-1,3-Dichloropropene	<0.017	ug/L	0.017	0.055	1			5/15/2007	APG	EPA 8260B
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.062	1			5/15/2007	APG	EPA 8260B
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichlorobenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
1,3-Dichloropropane	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
1,4-Dichlorobenzene	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
2,2-Dichloropropane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
2-Butanone	<0.50	ug/L	0.50	1.7	1			5/15/2007	APG	EPA 8260B
2-Chlorotoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
2-Hexanone	<0.80	ug/L	0.80	2.6	1			5/15/2007	APG	EPA 8260B
4-Chlorotoluene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
4-Methyl-2-pentanone	<0.40	ug/L	0.40	1.3	1			5/15/2007	APG	EPA 8260B
Acetone	<1.3	ug/L	1.3	4.5	1			5/15/2007	APG	EPA 8260B
Benzene	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromobenzene	<0.040	ug/L	0.040	0.13	1			5/15/2007	APG	EPA 8260B
Bromochloromethane	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Bromodichloromethane	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Bromoform	<0.040	ug/L	0.040	0.12	1			5/15/2007	APG	EPA 8260B
Bromomethane	<0.060	ug/L	0.060	0.18	1			5/15/2007	APG	EPA 8260B
n-Butylbenzene	<0.030	ug/L	0.030	0.10	1			5/15/2007	APG	EPA 8260B
sec-Butylbenzene	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
tert-Butylbenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

CTI LAB#: 471895 Sample Description: TRIP BLANK Sampled: 5/15/2007

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Carbon disulfide	<0.10	ug/L	0.10	0.35	1			5/15/2007	APG	EPA 8260B
Carbon tetrachloride	<0.040	ug/L	0.040	0.14	1			5/15/2007	APG	EPA 8260B
Chlorobenzene	<0.060	ug/L	0.060	0.19	1			5/15/2007	APG	EPA 8260B
Chloroethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Chloroform	<0.040	ug/L	0.040	0.15	1			5/15/2007	APG	EPA 8260B
Chloromethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dibromochloromethane	<0.029	ug/L	0.029	0.096	1			5/15/2007	APG	EPA 8260B
Dibromomethane	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Dichlorodifluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Diisopropyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Ethylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Hexachlorobutadiene	<0.080	ug/L	0.080	0.28	1			5/15/2007	APG	EPA 8260B
Isopropylbenzene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
p-Isopropyltoluene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Methyl tert-butyl ether	<0.050	ug/L	0.050	0.15	1			5/15/2007	APG	EPA 8260B
Methylene chloride	2.5	ug/L	0.15	0.50	1	A,B		5/15/2007	APG	EPA 8260B
Naphthalene	<0.070	ug/L	0.070	0.23	1			5/15/2007	APG	EPA 8260B
n-Propylbenzene	<0.026	ug/L	0.026	0.086	1			5/15/2007	APG	EPA 8260B
Styrene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Tetrachloroethene	<0.050	ug/L	0.050	0.19	1			5/15/2007	APG	EPA 8260B
Tetrahydrofuran	<1.0	ug/L	1.0	3.3	1			5/15/2007	APG	EPA 8260B
Toluene	<0.050	ug/L	0.050	0.17	1			5/15/2007	APG	EPA 8260B
Trichloroethene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Trichlorofluoromethane	<0.050	ug/L	0.050	0.18	1			5/15/2007	APG	EPA 8260B
Vinyl acetate	<0.60	ug/L	0.60	2.0	1			5/15/2007	APG	EPA 8260B
Vinyl chloride	<0.018	ug/L	0.018	0.060	1			5/15/2007	APG	EPA 8260B
m & p-Xylene	<0.090	ug/L	0.090	0.29	1			5/15/2007	APG	EPA 8260B
o-Xylene	<0.050	ug/L	0.050	0.16	1			5/15/2007	APG	EPA 8260B
Bromofluorobenzene	98	% Recovery	72	119	1			5/15/2007	APG	EPA 8260B
d8-Toluene	82	% Recovery	63	118	1			5/15/2007	APG	EPA 8260B
Dibromofluoromethane	92	% Recovery	70	127	1			5/15/2007	APG	EPA 8260B
1,2 Dichloroethane-d4	96	% Recovery	68	126	1			5/15/2007	APG	EPA 8260B

WI DNR Lab Certification Number: 157066030
DATCP Certification Number: 105-000289
LA NELAP Certification Number: 04091

Solid sample results reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates Value in between LOD and LOQ.
All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

Submitted by: _____

Pat M. Letterer
Project Manager
608-356-2760

QC Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc
Project Contact: Nate Keller
Telephone: 608-219-1697
Project Name: Muskego EGM II
Project Number: 2133 03
Project Location: Muskego, WI
Sampled By: N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal (RUSH*)
Date Needed ASAP

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Folder #: 60275
Company: RMT
Project: EGM PHASE II
Logged By: JTS PM: PM

Mail Report To:
Company: RMT, Inc.
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N								Total # of Containers	Preservation*	Lab ID #
						N										
						8260B Low Level VOC										
						Fill in Spaces with Bottles per Test										
5/15/07	900	G	GOMW03 75-85		GW	4								4	B	471893
↓	1250	↓	GOMW09 85-95		GW	4								4	B	471894
			Trip Blank													471895

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	5/15/07 1330		
Received by: To Bonded Courier	Date/Time	Received for Laboratory by: [signature]	Date/Time 5/16/07 0737

Ice Present (Yes) No
Temperature 3.6°
Cooler # Theirs
PMC 05-15-07 1830

**Matrix
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Appendix K
2006 and 2007 Sampling Logs

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/30/06	BY: MVW DATE: 9/6/06

SAMPLE ID: MW01B | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 8 32	DATE: 5/30/06	SAMPLE	TIME: 9 09	DATE: 5/30/06

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER

DEPTH TO WATER: 21.84 T/ PVC

DEPTH TO BOTTOM: ~~—~~ T/ PVC

WELL VOLUME: ~~—~~ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 14 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR: None

TURBIDITY: None

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER

PH: 8.03 SU | CONDUCTIVITY: 278 umhos/cm

ORP: -142 mv | DO: 5.25 mg/L

TURBIDITY: 24.8 NTU

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.1 °C | OTHER:

COLOR: Colorless | ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ | ~~FILTRATE ODOR:~~

~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
8 46	600							21.84	INITIAL	
8 50	600							22.46	5.2L	
8 54	400	7.98	275	-138	5.08	21.3	~~7.55~~ 12.2	22.15	5.6L	
8 57	"	7.90	276	-161	6.34	28.5	12.1	22.09	6.2	6.8
9 00	"	7.93	276	-139	5.01	27.2	12.2	22.09	7.8	8.0
9 03	"	7.94	277	-140	5.18	26.6	12.2	22.05	9.4	9.2
9 06	"	8.00	277	-147	5.22	27.6	12.2	22.08	11	10.4
9 09	"	8.03	278	-142	5.25	24.8	12.1	22.09	12.6L	11.6
										(3.1 gal)
	✓	✓	✓	✓	✓	✓	✓	✓		

Update for 5.6 specific

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: [redacted]

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	vial	~~E~~	☐ Y ☒ N	2	8oz	pl	A	☐ Y ☒ N
1	1607	pl	B	☐ Y ☒ N	1	8oz	pl	D	☐ Y ☒ N
1	1607	pl	C	☐ Y ☒ N	2	40ml	vial	E	☐ Y ☒ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/30/06	AIRBILL NUMBER: 8558 6204 7547
COC NUMBER: STL - WM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

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PAGE ____ OF ____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 5/30/06	BY: MW	DATE: 9/6/06

SAMPLE ID: Theile — WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER DW

PURGING	TIME: 9:50	DATE: 5/30/06	SAMPLE	TIME: 10:12	DATE: 5/30/06

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: N/A T/ PVC

DEPTH TO BOTTOM: N/A T/ PVC

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~110 ☐ LITERS ☒ GALLONS

COLOR: 11 yellow ODOR: leachate/iron

TURBIDITY:

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER

PH: 7.42 SU — CONDUCTIVITY: 1528 umhos/cm

ORP: -124 mv — DO: 4.76 mg/L

TURBIDITY: — NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.4 °C — OTHER:

COLOR: Colorless — ODOR: bl Iron

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

QC ~~SAMPLE:~~ ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:50	300								INITIAL 100 gals +
9:59	"	7.86	1351	-204	3.93		12.3	N/A	2.7L
10:04	"	7.53	1556	-146	3.67		11.7		4.2L
10:06		7.47	1510	-117	2.93		11.5		4.8
10:09		7.43	1521	-122	7.91		11.3		5.7L
10:12		7.42	1528	-124	4.76		11.4		6.6L
		✓	✓	✓	> ±10%		✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	gl	E	☐ Y ☐ N	2	8oz	pl	A	☐ Y ☒ N
1	16oz	pl	B	☐ Y ☐ N	1	8oz		A	☐ Y ☒ N
1	16oz		C	☐ Y ☐ N	2	40ml	gl	E	☐ Y ☒ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/30/06	AIRBILL NUMBER: 8558620495 47
COC NUMBER: STL-NM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

2

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/30/06	BY: MW DATE: 9/6/06

SAMPLE ID: MW06 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1103	DATE: 5/30/06	SAMPLE	TIME: 1125	DATE: 5/30/06
PURGE METHOD: ☒ PUMP bladder ☐ BAILER			PH: 7.58 SU	CONDUCTIVITY: 654 umhos/cm	
			ORP: -143 mv	DO: 0.58 mg/L	
DEPTH TO WATER: — T/ PVC (Flowing)			TURBIDITY: 9.08 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.9 °C	OTHER:	
VOLUME REMOVED: 6 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: lt brown/clear ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: —			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1135	600 mL/min							Flowing	INITIAL
1140		7.54	657	-135	0.41	14.3	11.3		3 L
1143		7.55	659	-139	0.42	6.52	11.1		4.8
1146		7.56	658	-141	0.48	9.79	11.2		6.6
1149		7.58	655	-142	0.56	12.4	11.2		8.4
1152		7.57	656	-142	0.58	5.16	11.0		10.2
1155	↓	7.58	654	-143	0.58	9.08	10.9	↓	12 L
	✓	✓	✓	✓	✓	≥ ±10%	✓		
						but ≥ 10 NTU			
						✓			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB.: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES: See Attached Drawings | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/30/06	AIRBILL NUMBER: 855862049547
COC NUMBER: SLC-WA9	SIGNATURE: Nathaniel P Keller	DATE SIGNED: 6/5/06

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/30/06	BY: MW DATE: 6/6/06

SAMPLE ID: MW03A | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1220	DATE: 5/30/06	SAMPLE	TIME: 1303	DATE: 5/30/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 8.51 SU	CONDUCTIVITY: 134 umhos/cm	
			ORP: -13 mv	DO: 1.76 mg/L	
DEPTH TO WATER: 17.49 T/ PVC			TURBIDITY: >1000 NTU		
DEPTH TO BOTTOM: — T/ PVC			[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 14.9 °C	OTHER:	
VOLUME REMOVED: 4.3 [X] LITERS [ ] GALLONS			COLOR: lt brown	ODOR: None	
COLOR: lt brown	ODOR: None		FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY: >1000			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP-		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
								17.49	INITIAL
1240	200 mL/min	8.48	93	21	3.09	>1000	15.2	23.11	2.41 L OK
1243		8.43	161	24	2.73	>1000	15.0	23.14	2.46 L
1246		8.50	155	8	2.67	>1000	15.1	23.09	2.52
1249		8.50	139	-5	1.77	>1000	15.0	23.12	2.64 2.58
1255		8.50	141	-6	1.80	>1000	15.2	23.18	2.70
1259		8.50	138	-17	1.71	>1000	15.2	23.22	2.78
1303		8.51	134	-13	1.76	>1000	14.9	23.19	2.86
		✓	✓	>10%	✓	✓	✓	✓	
Low Flow to stabilize		QA							

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES: see Attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 5/30/06	AIRBILL NUMBER: 855586204 9546
COC NUMBER: STL-4077	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/30/06	BY: MLW DATE: 9/6/06

SAMPLE ID: MW04A | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1435	DATE: 5/30/06	SAMPLE	TIME: 1540	DATE: 5/30/06

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: 22.13 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: (2) — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 3.5 [X] LITERS [X] GALLONS

COLOR: lt brown ODOR: None

TURBIDITY: —

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 8.35 SU | CONDUCTIVITY: 426 umhos/cm

ORP: -69 mv | DO: 5.48 mg/L

TURBIDITY: 818 NTU

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

TEMPERATURE: 23.2 °C | OTHER: —

COLOR: lt brown | ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR~~

~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP

~~COMMENTS:~~

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1455	15-20 mL/min							23.13	INITIAL
1505		8.01	397	24	6.50	820	24.7	24.16	.1 L
~~1509~~								~~24~~	
1511	15-20 mL/min	8.09	414	5	6.09	841	23.9	24.59	.22 L
1518	↓	8.18	409	-38	5.90	831	23.6	24.76	.36 L
1523	↓	8.34	416	-41	5.68	826	23.4	24.79	.42 L
1528	↓	8.32	422	-56	5.52	817	23.3	24.86	.64 L
1532	↓	8.27	418	-68	5.53	821	23.4	24.91	.72 L
1537	↓	8.36	426	-61	5.51	810	23.5	24.93	.82 L
1540	↓	8.35	426	-69	5.48	818	23.2	24.96	.88 L
Flow rate fixed 1									

0.03 ft drawdown = 0.012 L from drawdown only 0.06 L removed in interval 30% from casing will not be visible

Low flow sampling pump intake

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~PH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A- NONE B- HNO3 C- H2SO4 D- NaOH E- HCL F- _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
6	40mL	gl	E	[ ] Y [X] N	2	8oz	pl	A	[ ] Y [X] N
1	16 oz	pl	B	[ ] Y [X] N	1	8oz	pl	D	[ ] Y [X] N
1	16oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/30/06	AIRBILL NUMBER: 8586204947
COC NUMBER: STL-MSM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MWS DATE: 9/6/06

SAMPLE ID: MW02 WELL DIAMETER [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 8:00	DATE: 5/31/06	SAMPLE	TIME: 8:28	DATE: 5/31/06

PURGE METHOD: [X] PUMP [ ] BAILER

PH: 7.01 SU CONDUCTIVITY: 1021 umhos/cm

ORP: -77 mv DO: 0.91 mg/L

DEPTH TO WATER: 47.73 T/ PVC

TURBIDITY: 15.4 NTU

DEPTH TO BOTTOM: — T/ PVC

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

WELL VOLUME: — [ ] LITERS [ ] GALLONS

TEMPERATURE: 11.8 °C OTHER:

VOLUME REMOVED: 40 [ ] LITERS [X] GALLONS

COLOR: Color less ODOR: None

COLOR: Clear ODOR: None

~~FILTRATE (0.45 um) [ ] YES [ ] NO~~

TURBIDITY:

~~FILTRATE COLOR: FILTRATE ODOR:~~

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

~~COMMENTS:~~

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8:00	400 mL/min							47.73	INITIAL
8:05	"							47.76	2 L
8:10		6.88	1018	-58	1.0	89.7	11.7	47.76	4 L
8:13		6.94	1017	-63	.94	40.4	11.7	47.76	5.2
8:16		6.96	1020	-62	.83	21.7	11.6	47.76	6.4
8:19		6.97	1020	-66	.94	17.3	11.7	47.76	7.6
8:22		7.01	1021	-75	.89	19.3	11.8	47.76	8.8
8:25		7.01	1020	-78	.93	13.0	11.8	47.76	11
8:28		7.01	1021	-77	.91	15.4	11.8	47.76	12.2
		✓	✓	✓	✓	>10%	✓	✓	

3.2 gal

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES see Attached							
		A - NONE	B - HNO3	C - H2SO4	D - NaOH	E - HCL	F -		
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 8558 6246 8484
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRS	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MLW DATE: 6/6/06

SAMPLE ID: MW03 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 9:35	DATE: 5/31/06	SAMPLE	TIME: 9:51	DATE: 5/31/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.22 SU	CONDUCTIVITY: 1914 umhos/cm	
			ORP: -92 mv	DO: 0.81 mg/L	
DEPTH TO WATER: 12.72 T/ PVC			TURBIDITY: 5.31 NTU		
DEPTH TO BOTTOM: ___ T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ___ [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.1 °C	OTHER:	
VOLUME REMOVED: 60 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Clear	ODOR: None		FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY: None			FILTRATE COLOR:	FILTRATE ODOR:	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:30								12.72	INITIAL
9:34	450	7.29	1900	-82	1.22	36.6	11.2	12.72	3.7
9:35			196						
9:39		7.25	1904	-89	0.87	22.4	11.1	12.72	4.5
9:41		7.25	1911	-89	0.89	15.9	11.1	12.72	5.85
9:45		7.23	1910	-91	0.91	5.70	11.2	12.72	7.65
9:49		7.23	1914	-93	0.84	6.64	11.1		9.0
9:51	↓	7.22	1914	-92	0.81	5.31	11.1	↓	10.35
		✓	✓	✓	✓	>10% below	✓	✓	
						<10% below			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: ~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 853865246 6484
COC NUMBER: SL - WM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MW DATE: 9/6/06

SAMPLE ID: E135 D | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1049	DATE: 5/31/06	SAMPLE	TIME: 1107	DATE: 5/31/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.17 SU	CONDUCTIVITY: 654 umhos/cm	
			ORP: -66 mv	DO: 2.36 mg/L	
DEPTH TO WATER: 40.06 T/ PVC 41.06			TURBIDITY: 2.01 NTU		
DEPTH TO BOTTOM — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 12.4 °C	OTHER:	
VOLUME REMOVED: 45 [ ] LITERS [X] GALLONS			COLOR: Color less	ODOR: None	
COLOR: Clear	ODOR: None		FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP-		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1052	420							41.06	INITIAL	2L OK
1055		7.21	656	-60	3.20	6.43	12.8		3.26	—
1059		7.19	655	-64	2.23	2.93	12.4		4.5	4.9
1103		7.18	649	-65	2.30	3.31	12.3		6.18	6.6
1107	↓	7.17	654	-66	2.36	2.01	12.4		7.86	8.3 (2.25 gal)
		✓	✓	✓	✓	>10%	✓	↓		
						but <10% NTU		✓		
						✓				

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES see Attached — A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 8558624654 89
COC NUMBER: STL-6111	SIGNATURE: Nathaniel Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: HW DATE: 9/6/06

SAMPLE ID: E1354 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1140	DATE: 5/31/06	SAMPLE	TIME: 1218	DATE: 5/31/06
PURGE METHOD: [X] PUMP [ ] BAILER			PH: 7.04 SU	CONDUCTIVITY: 992 umhos/cm	
			ORP: -58 mv	DO: 2.29 mg/L	
DEPTH TO WATER: 40.97 T/ PVC			TURBIDITY: 38.1 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 12.5 °C	OTHER:	
VOLUME REMOVED: 15 [ ] LITERS [X] GALLONS			COLOR: Orange	ODOR: None	
COLOR: Orange	ODOR: None		FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP.		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: Turbidity Metals bottle		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1145	450							40.97	INITIAL
1150		6.96	962	-72	9.62	353	12.4		2.25
1155		7.03	992	-58	3.07	105	12.4		4.5
1200		7.04	994	-55	2.37	49.2	12.4		6.75
1205		7.03	994	-56	2.25	46.3	12.5		9.0
1210		7.01	992	-60	2.30	33.6	12.5		11.25
1215		7.02	991	-59	2.32	32.6	12.6		13.5
1218		7.04	992	-58	2.29	38.1	12.5		14.85
		✓	✓	✓	✓	>10%	✓	✓	

switch reversed flow thru

(3.9 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
"				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 8555246 8484
COC NUMBER: STL-WA1	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MW DATE: 9/6/06

SAMPLE ID: P64C | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1134	DATE: 5/31/06	SAMPLE	TIME: 1403	DATE: 5/31/06
PURGE METHOD:	☒ PUMP Bladder ☐ BAILER		PH: 6.98 SU	CONDUCTIVITY: 1112 umhos/cm	
			ORP: -29 mv	DO: 2.36 mg/L	
DEPTH TO WATER: 11.79 T/ PVC			TURBIDITY: 8.55 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____	☐ LITERS ☐ GALLONS		TEMPERATURE: 10.9 °C	OTHER: ____	
VOLUME REMOVED: 4	☐ LITERS ☒ GALLONS		COLOR: Colorless	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP ____		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1342	375							11.79	INITIAL 3L OK
1345		7.17	1079	-22	1.37	57.8	11.2		1.125
1348		7.04	1088	-21	2.08	31.3	11.0		5.25
1351		7.01	1103	-23	2.58	24.8	10.7		6.375
1354		7.02	1112	-29	2.48	9.90	11.2		7.5
1357		6.99	1114	-33	2.25	8.85	11.0		8.68 8.6
1400		6.99	1115	-33	2.27	8.73	10.9		9.75
1403		6.98	1112	-29	2.36	8.55	10.9		10.88
~~1406~~									(2.5 gal)
		✓	✓	(>10%)	✓	✓	✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES: See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 855862468484
COC NUMBER: STL-[illegible]	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

PAGE _____ OF _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MLW DATE: 9/6/06

SAMPLE ID: E 137 B — WELL DIAMETER [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 15:10	DATE: 5/31/06	SAMPLE	TIME: 15:55	DATE: 5/31/06

PURGE METHOD: [X] PUMP Bladder [ ] BAILER *After pump moving up-3 in

PH: 6.87 SU — CONDUCTIVITY: 1473 umhos/cm

ORP: -71 mv — DO: 0.59 mg/L

DEPTH TO WATER: 25.23 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

TURBIDITY: 49.6 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

WELL VOLUME: — [ ] LITERS [ ] GALLONS

TEMPERATURE: 13.7 °C — OTHER:

VOLUME REMOVED: 4.5 [ ] LITERS [X] GALLONS

COLOR: Colorless — ODOR: None

COLOR: H brown — ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

TURBIDITY: 34

~~FILTRATE COLOR: — FILTRATE ODOR:~~

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

~~COMMENTS:~~

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
15:19	350							25.23*	INITIAL	3L ok
15:23	↓	6.92	1459	-83	0.46	345	13.7	25.23	4.4	✓
15:26	↓	6.91	1474	-85	0.50	222	13.8	25.23	5.45	✓
15:32	↓	6.81	1471	-80	0.58	71.0	13.7		7.55	✓
15:36	↓	6.87	1476	-76	0.59	85.5	13.7		8.95	✓
15:40	↓	6.87	1477	-76	0.58	43.3	13.5	↓	11.05	Let 4
15:45	↓	6.87	1476	-72	0.61	52.1	13.8	↓	~~12.8~~	12.1
15:50	↓	6.87	1479	-72	0.59	47.2	13.7	↓	~~14.55~~	13.9
15:55	↓	6.87	1473	-71	0.59	49.6	13.7	↓	~~16.3~~	15.6
		✓	✓	✓	✓	✓	✓	✓		(4.1 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- 3% ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 8558624 6 8484
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

11

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31/06	BY: MLW DATE: 9/6/06

SAMPLE ID: F137A | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 16:25	DATE: 5/31/06	SAMPLE	TIME: 17:25	DATE: 5/31/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.83 SU	CONDUCTIVITY: 1345 umhos/cm	
			ORP: -40 mv	DO: 0.83 mg/L	
DEPTH TO WATER: 24.76 T/ PVC			TURBIDITY: 58.9 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [X] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 13.1 °C	OTHER:	
VOLUME REMOVED: 3.5 [ ] LITERS [X] GALLONS			COLOR: lt brown	ODOR: None	
COLOR: lt brown ODOR: None			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP:		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: Went Invalid during 1st bottle		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
16:42	~~450~~ 250							25.17	INITIAL	4 L OK
16:49	~~450~~	6.84	1291	-46	0.81	239	13.3	25.19	5.5L	—
16:52		6.84	1311	-48	0.74	903	13.3	25.17	6.5L	—
16:54		6.84	1315	-44	0.82	429	13.0	25.18	7.5L	7.0
16:58		6.83	1324	-44	0.79	235	13.1	25.19	8.5L	8.0
17:02		6.84	1329	-42	0.86	167	13.3	25.22	9.5L	9.0
17:05		6.83	1333	-41	0.89	98.8	13.1	25.17	10.0gal	9.8
17:10	↓	6.83	1342	-39	0.79	63.3	13.1	25.17	10.5L	11
17:15		6.84	1342	-38	0.86	62.0	13.1	25.17	12.75	12.3
17:20		6.84	1340	-39	0.89	61.0	13.2	25.17	14	13.5
17:25	↓	6.83	1345	-40	0.83	58.9	13.1	25.17	15.25	14.8

(3.9 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES See Attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 855862468484
COC NUMBER: STL-WA1	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 5/31	BY: MCW DATE: 9/6/06

SAMPLE ID: FB 01 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☒ DI ☐ LEACHATE ☒ OTHER QCW

PURGING	TIME:	DATE:	SAMPLE	TIME: 1800	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: 8.30 SU	CONDUCTIVITY: 3 umhos/cm	
			ORP: 48 mv	DO: 7.39 mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 24.4 °C	OTHER:	
VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS			COLOR: colorless ODOR: None		
COLOR: ____ ODOR: ____			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP: ____		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 5/31/06	AIRBILL NUMBER: 6553 6246 8484
COC NUMBER: STL - WM	SIGNATURE: [signature]	DATE SIGNED: 6/15/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 6/1/06	BY: MLW	DATE: 9/6/06

SAMPLE ID: CW7 — WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☒ OTHER unknown 12"

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Steel / unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 8 20	DATE: 6/1/06	SAMPLE	TIME: 8 55	DATE: 6/1/06

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: -4 ☐ LITERS ☒ GALLONS

COLOR: Clear ODOR: None

TURBIDITY:

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER

PH: 7.13 SU — CONDUCTIVITY: 704 umhos/cm

ORP: -78 mv — DO: 1.61 mg/L

TURBIDITY: 3.91 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.3 °C — OTHER:

COLOR: Colorless — ODOR: None

~~FILTRATE (0.45 um) ☐ YES ☐ NO~~

~~FILTRATE COLOR:~~ — ~~FILTRATE ODOR:~~

QC SAMPLE: ☒ MS/MSD ☒ DUP/01

COMMENTS: MS/MSD 2 just VOCs for 524.2

Pumping @ ~700 gpm when arrived

use beaker for flow through cell setup no attach for gozdt on well

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8 21	400 mL/min	6.27	706	106	4.22	20.7	12.3	NA	INITIAL
8 25		6.91	694	-55	2.28	15.2	11.7		1.6L
8 30		7.04	706	-67	2.04	15.1	11.3		3.6
8 35		7.05	700	-76	1.63	4.72	11.6		5.6
8 40		7.13	698	-71	1.62	4.05	11.4		7.6
8 45		7.14	701	-78	1.59	3.87	11.4		9.6
~~8 50~~		7.13	704	-78	1.61	3.91	11.3		13.6
8 55									
		✓	✓	✓	✓	✓	✓		

~3.6 gal

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/1/06	AIRBILL NUMBER: 8558 6246 8495
COC NUMBER: STL-NM	SIGNATURE: Nathaniel Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG		PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 6/1/06	BY: MW	DATE: 9/6/06

SAMPLE ID: MW04 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1140	DATE: 6/1/06	SAMPLE	TIME: 1217	DATE: 6/1/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.94 SU	CONDUCTIVITY: 1365 umhos/cm	
			ORP: -23 mv	DO: 0.93 mg/L	
DEPTH TO WATER: 20.13 T/ PVC			TURBIDITY: 49.0 NTU		
DEPTH TO BOTTOM: ___ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ___ [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.7 °C	OTHER:	
VOLUME REMOVED: 6 [ ] LITERS [X] GALLONS			COLOR: colorless	ODOR: None	
COLOR: None ODOR: None			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [X] ~~MS/MSD~~ [X] DUP D2		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: MS2 / MSD2		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1149	440 mL/min							20.24	INITIAL
1150		7.01	1352	-9	0.89	17.9	11.6	20.24	5.44
1155		7.00	1363	-8	0.84	26.4	17.7	20.24	7.64
1200		7.01	1364	-22	0.92	37.3	11.6	20.24	9.84
1203		6.99	1367	-25	0.86	57.8	11.5	20.24	11.1
1206		6.99	1364	-24	0.89	50.3	11.7	20.24	12.4
1209		6.98	1368	-24	0.89	48.8	11.6	20.24	13.9
1214		6.96	1368	-23	0.91	45.2	11.6	20.24	15.9
1217		6.94	1365	-23	0.93	49.0	11.7	20.24	16.2
		✓	✓	✓	✓	✓	✓	✓	

5L OK

11.2
12.5
13.8
~~15.1~~ 16.0
17.3
(4.6 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ___ See Attached

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 6/1/06	AIRBILL NUMBER: 6558 6246 3495
COC NUMBER: CTL-4077	SIGNATURE: Michael Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 6/1/06	BY: MLW DATE: 6/6/06

SAMPLE ID: Seybold | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER Unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER DW

PURGING	TIME: 1600	DATE: 6/1/06	SAMPLE	TIME: 1645	DATE: 6/1/06
PURGE METHOD:	☒ PUMP ☐ BAILER		PH: 7.77 SU	CONDUCTIVITY: 263 umhos/cm	
			ORP: -96 mv	DO: 1.92 mg/L	
DEPTH TO WATER: N/A T/ PVC			TURBIDITY: 4.22 NTU		
DEPTH TO BOTTOM: N/A T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: N/A ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.5 °C	OTHER:	
VOLUME REMOVED: 113 ☐ LITERS ☒ GALLONS			COLOR: None	ODOR: None	
COLOR: None	ODOR: None		FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE ☐ MS/MSD ☐ DUP		
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

Pump @ 10gpm for 10min then took field parameters w/ bucket to minimize

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1610	450								INITIAL
1613		8.16	257	-67	2.01	10.9	14.1	NA	340L
1616		7.89	259	-99	1.46	5.20	13.9		341.3
1620		7.81	261	-97	1.45	5.86	14.3		342.9
1623		7.80	261	-105	1.36	5.05	14.2		344.2
1627		7.78	262	-98	1.44	4.19	14.6		346
1631		7.76	261	-99	1.41	4.86	14.3		347.8
1635		7.76	263	-92	1.37	4.32	14.4		349.6
1640		7.74	264	-94	1.40	4.56	14.6		351.85
1645		7.77	263	-96	1.42	4.22	14.5		354.1
		✓	✓	✓	✓	✓	✓		

OK 105 gal (~380L)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEX	DATE SHIPPED: 6/1/06	AIRBILL NUMBER: 855634654495
COC NUMBER: STL-WM	SIGNATURE: M Alfred Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 6/1/06	BY: MLW	DATE: 9/6/06

SAMPLE ID: MW05 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 2 25	DATE: 6/1/06	SAMPLE	TIME: 15 00	DATE: 6/1/06
PURGE METHOD:	[X] PUMP Bladder [ ] BAILER		PH: 7.08 SU	CONDUCTIVITY: 1315 umhos/cm	
			ORP: -98 mv	DO: 0.82 mg/L	
DEPTH TO WATER: 5.55 T/ PVC			TURBIDITY: 15.9 NTU		
DEPTH TO BOTTOM: — T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.2 °C	OTHER:	
VOLUME REMOVED: 13.5 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless	ODOR: None		~~FILTRATE (0.45 um)~~ [ ] YES [ ] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP.		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			~~COMMENTS:~~		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
14 35 ~~235~~	325							5.55	INITIAL	32 ok
~~2~~ 14 38		707	1316	-80	0.77	16.5	11.4		3.975	
14 41		706	1313	-78	0.69	26.0	11.7		4.95	
14 44		707	1310	-80	0.70	13.5	11.5		5.93	
14 48		707	1318	-83	0.82	21.1	11.3		7.225	
14 51		7.07	1313	-81	0.82	16.3	11.5		8.20	
14 55		7.07	1311	-87	0.84	17.0	11.3		9.5	
15 00		708	1315	-88	0.82	15.9	11.2		11.2	11.1 (2.9 gal)
		✓	✓	✓	✓	✓	✓			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/1/06	AIRBILL NUMBER: 255824684 95
COC NUMBER: STL-NM	SIGNATURE: [signature]	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 6/2/06	BY: MLW DATE: 9/6/06

SAMPLE ID: E93D | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 6:50	DATE: 6/2/06	SAMPLE	TIME: 7:21	DATE: 6/2/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.99 SU	CONDUCTIVITY: 1479 umhos/cm	
			ORP: -49 mv	DO: 1.21 mg/L	
DEPTH TO WATER: 23.4 T/ PVC			TURBIDITY: 3.29 NTU		
DEPTH TO BOTTOM: — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 16.3 Celsius °C	OTHER:	
VOLUME REMOVED: 5 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Clear	ODOR: None		FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
7:00	450 mL/min							23.41	INITIAL 0.5 L
7:03		6.91	1476	-45	1.94	15.7	10.8	23.41	7.85
7:06		6.94	1476	-48	1.20	6.26	10.8	23.41	9.2
7:09		6.94	1479	-48	1.14	4.84	10.5	23.41	10.55
7:12		6.95	1478	-48	1.12	4.55	10.7		11.7
7:15		6.99	1479	-49	1.18	3.19	10.8		13.25
7:18		6.97	1479	-49	1.14	3.05	10.8		14.6
7:21		6.99	1479	-49	1.21	3.29	10.8		~~16.95~~ 16.0 (4.28 gal)
		✓	✓	✓	✓	✓	✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB.: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES: See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [X] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/2/06	AIRBILL NUMBER: 855862946855
COC NUMBER: STL-WM	SIGNATURE: Nathaniel A Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG		PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 6/2/06	BY: MLW	DATE: 6/6/06	

SAMPLE ID: MW01A | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1142	DATE: 6/2/06	SAMPLE	TIME: 1220	DATE: 6/2/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.07 SU	CONDUCTIVITY: 1421 umhos/cm	
			ORP: -136 mv	DO: 0.76 mg/L	
DEPTH TO WATER: 20.37 T/ PVC			TURBIDITY: 4.62 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.9 °C	OTHER:	
VOLUME REMOVED: 5 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: clear	ODOR: None		FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE [ ] MS/MSD [ ] DUP		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1151	450 mL/min							20.37	INITIAL 2 L
1153		7.16	1355	-87	1.85	11.2	12.4	20.37	2.9
1156		7.12	1413	-107	1.15	6.90	12.1	20.37	4.25
1159		7.10	1423	-118	0.92	7.20	12.1	20.37	5.6
1202		7.10	1428	-125	0.92	4.51	12.0		6.95
1205		7.09	1426	-129	0.84	4.69	11.9		8.3
1208		7.09	1422	-130	0.82	4.89	12.0		9.65
1211		7.08	1424	-131	0.79	5.51	12.0		11
1214		7.08	1422	-133	0.83	4.70	11.9		12.35
1217		7.07	1422	-135	0.80	4.50	11.9		13.7
1220		7.07	1421	-136	0.76	4.62	11.9		15 (~4.0 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES see Attached Sheet

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/2/06	AIRBILL NUMBER: 855862465500
COC NUMBER: STL-WM	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 6/2/06	BY: MLW DATE: 9/6/06

SAMPLE ID: MW01 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1250	DATE: 6/2/06	SAMPLE	TIME: 1323	DATE: 6/2/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.18 SU	CONDUCTIVITY: 1657 umhos/cm	
			ORP: -87 mv	DO: 1.05 mg/L	
DEPTH TO WATER: 21.46 T/ PVC			TURBIDITY: 973 NTU		
DEPTH TO BOTTOM: — T/ PVC			[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 12.4 °C	OTHER:	
VOLUME REMOVED: 6 [ ] LITERS [X] GALLONS			COLOR: lt brown	ODOR: None	
COLOR: V. lt brown ODOR: None			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [X] DUP 03		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1305	450							21.46	INITIAL
1309		7.21	1655	-81	1.11	521	12.6	21.46	6.35
1311		7.20	1650	-83	1.15	706	12.5	21.46	7.7
1314		7.19	1643	-85	1.12	852	12.4	21.46	9.05
1317		7.18	1654	-85	1.07	966	12.4		10.4
1320		7.19	1660	-87	1.12	988	12.4		11.7
1323		7.18	1657	-87	1.05	973	12.4	✓	13.05
1326		✓	✓	✓	✓	✓	✓	✓	✓
1329									
1333									
1335									

5L EK

11.8

13.1

(3.5 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES: See Attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/2/06	AIRBILL NUMBER: 8555 6246 8500
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Keller	DATE SIGNED: 6/5/06

2c

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 6/2/06	BY: MLW	DATE: 9/6/06

SAMPLE ID: MW07 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 3:10	DATE: 6/2/06	SAMPLE	TIME: 1544	DATE: 6/2/06

PURGE METHOD: [X] PUMP Bladder [ ] BAILER

DEPTH TO WATER: NM T/ PVC Flowing

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 6 [ ] LITERS [X] GALLONS

COLOR: V. lt brown ODOR: slt sulfur

TURBIDITY:

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.17 SU — CONDUCTIVITY: 1306 umhos/cm

ORP: -69 mv — DO: 0.55 mg/L

TURBIDITY: 31.1 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 11.1 °C — OTHER:

COLOR: Colorless — ODOR: None

~~FILTRATE (0.45 um)~~ [ ] YES [ ] NO

~~FILTRATE COLOR~~ — ~~FILTRATE ODOR~~

~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP-

~~COMMENTS:~~

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
3:15	600 mL/min							Flowing	INITIAL	3.5 OK
3:20		7.22	1304	-66	0.78	85.8	11.1		4.7	✓
15:23		7.22	1307	-69	0.84	64.5	11.1		6.5	✓
15:26		7.22	1302	-71	0.74	56.7	11.2		8.3	✓
15:29		7.21	1307	-68	0.69	44.0	11.2		10.1	✓
15:32		7.20	1302	-70	0.65	40.2	11.2		11.9	✓
15:35		7.18	1305	-71	0.64	36.8	11.2		13.7	✓
15:38		7.16	1306	-69	0.58	33.0	11.1		15.5	✓
15:41		7.15	1305	-68	0.60	32.2	11.1		17.3	✓
15:44		7.17	1306	-69	0.55	31.1	11.1		19.1	✓ (~5 gal)
~~15:47~~		✓	✓	✓	✓	✓	✓			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: See Attached Sheet

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/2/06	AIRBILL NUMBER: 8558 6246 8500
COC NUMBER: STL-WM	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 6/5/06

RMT

WATER SAMPLE LOG

Not Analyzed

PROJECT NAME: MSSRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/27/06	BY: MW DATE: 8/30/06

SAMPLE ID: MW03A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12 00	DATE: 6/27/06	SAMPLE	TIME: 12 30	DATE: 6/27/06
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 8.55 SU	CONDUCTIVITY: 613 umhos/cm	
			ORP: 60 mv	DO: 1.70 mg/L	
DEPTH TO WATER: 20.66 T/ PVC			TURBIDITY: >1000 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.7 °C	OTHER:	
VOLUME REMOVED: 1.75 ☐ LITERS ☒ GALLONS			COLOR: LT BROWN	ODOR: None	
COLOR: LT BROWN			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12 04								21.36	INITIAL
12 06	~150 mL/min							21.44	0.4 L
12 09		8.78	609	57	3.70	>1000	15.1	21.56	0.2
12 11		8.83	608	60	3.57	>1000	13.7	21.82	0.35
12 14		8.87	606	66	2.01	>1000	13.3	22.03	0.50
12 17		8.83	603	62	3.93	>1000	13.1	22.22	0.65
12 20		8.92	605	67	2.04	>1000	13.1	22.35	0.80
12 23		8.80	606	58	1.48	>1000	12.9	22.44	0.95
12 26		8.66	604	56	1.41	>1000	13.3	22.66	1.10
12 29		8.61	604	62	1.04	>1000	13.4	22.86	1.25
12 32		8.59	603	65	1.23	>1000	13.7	23.04	1.40

jumped to 20 gal drum

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO_3 C - H_2SO_4 D - NaOH E - HCL F - _____ See Attached → Not analyzed

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/27/06	AIRBILL NUMBER: 857633989785
COC NUMBER: SPL-40M	SIGNATURE: Daniel P Kelly	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG Not Analyzed

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/27/06	BY:	DATE:

SAMPLE ID: MW07A WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER

~~WELL MATERIAL:~~ ☐ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME:	DATE:
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: ____ SU	CONDUCTIVITY:	umhos/cm
			ORP: ____ mv	DO:	mg/L
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: ____ NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: ____ °C	OTHER:	
VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS			COLOR: ____	ODOR:	
COLOR:			FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1235	500 mL	8.85	604	60	1.78	>1000	13.5	23.09	INITIAL 1.55
1238		8.03	608	64	1.83	>1000	13.3	23.27	1.70
1241		8.67	615	61	4.79	>1000	12.8	23.46	1.85
1244		8.59	611	58	4.61	>1000	13.4	23.54	2.00
1247		8.54	614	54	1.68	>1000	13.9	23.62	2.15
1250		8.55	613	60	1.70	>1000	13.7	23.72	2.30
		✓	✓	✓	Not Stable	✓	✓	✓	
								Not Stable	
								>10ft from Casing	

Heat may be giving DO problems

0.15 L / 3 min

0.15 L = 0.04 gal = 0.25 ft drawdown

0.05 ft dra = 0.008 gal = 0.03 L from shaganal H2O 20%

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: See previous	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/26/06	BY: MLW DATE: 8/30/06

SAMPLE ID: E135A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1430	DATE: 6/29/06	SAMPLE	TIME: 1512	DATE: 6/29/06
PURGE METHOD:	☒ PUMP Bladder		PH: 6.39 SU	CONDUCTIVITY: 1134 umhos/cm	
	☐ BAILER		ORP: -106 mv	DO: 0.47 mg/L	
DEPTH TO WATER: 40.99 T/ PVC			TURBIDITY: 4.54 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.7 °C	OTHER:	
VOLUME REMOVED: 3.5 ☐ LITERS ☒ GALLONS OK			COLOR: lt brown	ODOR: none	
COLOR: orange			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR: none~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME ~~(GAL OR~~ (L)
1440	450							40.35	INITIAL
1443		6.35	1122	-99	1.02	194	14.1	40.38	0.9 L
1445		6.32	1127	-100	0.81	107	14.3	40.38	2.25
1448		6.34	1128	-103	0.75	103	14.6	40.38	3.60
1451		6.30	1130	-102	0.64	69.7	13.9	40.38	4.95
1454		6.31	1130	-105	0.55	37.7	13.4	40.38	6.30
1457	↓	6.27	1134	-103	0.55	21.9	13.0	↓	7.65
1500		6.36	1135	-104	0.56	18.5	13.1		9.00
1503		6.39	1134	-105	0.50	13.2	12.9		10.35
1506		6.39	1134	-106	0.45	9.47	12.9		11.70
1509		6.38	1135	-106	0.47	9.61	12.8	↓	13.05

D.I.S.P. Rate

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____ See 4 Hardcopy

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 857633989774
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Hall	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/27/06	BY: MLW	DATE: 8/30/06

SAMPLE ID: MW06 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 8 23	DATE: 6/27/06	SAMPLE	TIME: 8 37	DATE: 6/27/06

PURGE METHOD: [X] PUMP Bladder [ ] BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 3.5 [ ] LITERS [X] GALLONS OK

COLOR: Clear

TURBIDITY:

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.25 SU — CONDUCTIVITY: 668 umhos/cm

ORP: -174 mv — DO: 0.43 mg/L

TURBIDITY: 5 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 10.4 °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR: FILTRATE ODOR:~~

~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	Liters
									INITIAL	
8 25	700 cc	7.31	668	-145	0.48	10	10.5	—	~~0~~ L	1.4
8 24		7.20	668	-158	0.44	7	10.4	—	~~2.1~~	3.5
8 31		7.21	668	-165	0.43	5	10.4	—	~~4.2~~	5.6
8 34		7.24	669	-172	0.43	3	10.4	—	~~6.3~~	7.7
8 37		7.25	668	-174	0.43	5	10.4	—	3.5 gal	~~8.4~~ L
										(~~2.2~~ gal 2.6
	↓	✓	✓	✓	✓	✓	✓	?		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached Sheet

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/27/06	AIRBILL NUMBER: 8376 3578 9785
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Kelly	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/27/06	BY: MW	DATE: 8/30/06

SAMPLE ID: MW01B — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 9:25	DATE: 6/27/06	SAMPLE	TIME: 9:48	DATE: 6/27/06

PURGE METHOD: [X] PUMP Bladder [ ] BAILER

DEPTH TO WATER: 21.41 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: ~~2.25~~ [ ] LITERS [X] GALLONS

COLOR: Colorless

TURBIDITY:

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.84 SU — CONDUCTIVITY: 300 umhos/cm

ORP: -161 mV — DO: 0.50 mg/L

TURBIDITY: 4 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 7.9 °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
930	350	7.71						22.03	INITIAL 0	L
933		~~294~~ NK 7.75	297	-159	0.55	20	~~13.1~~ 7.8 NK 6/27	21.75		1.1
936		~~297~~ 7.75	297	-150	0.55	3	7.9	21.90	1 gal	2.1
939		7.80	297	-148	0.55	6	7.9	21.91		3.2
942		7.81	300	-160	0.53	3	7.8	21.92		4.2
945		7.82	301	-153	0.51	1	7.8	21.93		5.3
948		7.84	300	-161	0.52	4	7.9	21.90	2 gal	6.3
951										(~1
		✓	✓	✓	✓	✓	✓	✓		
										= 8.1

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[X] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [X] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/27/06	AIRBILL NUMBER: 857633989785
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/27/06	BY: MW DATE: 8/30/06

SAMPLE ID: MW02 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1037	DATE: 6/27/06	SAMPLE	TIME: 1050	DATE: 6/27/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.89 SU	CONDUCTIVITY: 1026 umhos/cm	
			ORP: -75 mv	DO: 0.57 mg/L	
DEPTH TO WATER: 47.73 T/ PVC			TURBIDITY: 5 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 7.0 °C	OTHER:	
VOLUME REMOVED: 2.52 [ ] LITERS [X] GALLONS OF			COLOR: Colorless	ODOR: None	
COLOR: Clear			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [X] DUP- 01		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1040	400mL/min							47.73	INITIAL
1041		7.0	1002	-73	1.42	31	6.6	47.73	0.4 L
1044		6.94	1005	-87	0.68	19	6.6	47.73	
1047		6.92	1014	-88	0.65	5	7.0		1 gal
1050		6.93	1019	-90	0.61	5	7.0		
1053		6.90	1023	-92	0.56	5	7.1		
1056		6.89	1026	-95	0.57	5	7.0		2 gal
1059	↓	✓	✓	✓	✓	✓	✓	↓	

7.6
2.8
9.0
5.2
6.4
(~1.7 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES: See Attached - two sets | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/27/06	AIRBILL NUMBER: 857623789785
COC NUMBER: STL-WM	SIGNATURE: Nathaniel P Kelly	DATE SIGNED: 7/6/05

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/27/6	BY: MW DATE: 5/30/06

SAMPLE ID: MW0414 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 2 40 P.M.	DATE: 6/27/06	SAMPLE	TIME: 1519	DATE: 6/27/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.59 SU	CONDUCTIVITY: 413 umhos/cm	
			ORP: -163 mv	DO: 2.51 mg/L	
DEPTH TO WATER: 23.61 T/ PVC			TURBIDITY: 244 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 20.9 °C	OTHER:	
VOLUME REMOVED: 21 [ ] LITERS [X] GALLONS DI			COLOR: lt brown	ODOR: None	
COLOR: lt brown			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP:~~		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
2 50	1							24.01	INITIAL
2 53	100mL/min							24.13	0.3
2 55		7.70	399	-55	3.25	>1000	17.5	24.16	0.6
14 58		7.62	403	-80	3.11	>1000	18.8	24.30	0.9
15 01		7.62	396	-112	3.15	>1000	19.2	24.47	1.2
15 04		7.63	406	-105	3.31	>1000	19.4	24.53	1.5
15 07		7.69	408	-110	3.25	406	19.8	24.60	1.8
15 10		7.80	405	-164	3.21	261	20.1	24.74	2.1
15 13		7.84	404	-153	2.68	225	20.6	24.50	2.4
15 16	↓	7.86	407	-161	2.63	248	20.8	24.92	2.7
15 19	↓	7.89	413	-163	2.51	244	20.9	24.91	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED	PRESERVATIVE CODES A - NONE B - HNO3 See Attached C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/27/06	AIRBILL NUMBER: 8376 3398 9785
COC NUMBER: STL-WA7	SIGNATURE: Nathaniel Kelly	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/29/06	BY: MLW DATE: 8/2/06

SAMPLE ID: MW04 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 725	DATE: 6/28/06	SAMPLE	TIME: 750	DATE: 6/28/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.92 SU	CONDUCTIVITY: 1528 umhos/cm	
			ORP: -72 mv	DO: 0.44 mg/L	
DEPTH TO WATER: 20.31 T/ PVC			TURBIDITY: 4.12 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.8 °C	OTHER:	
VOLUME REMOVED: 3.5 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP.~~		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
730	700 mL/min							20.31	INITIAL	0
732		6.65	1541	-67	0.38	4.19	16.4	20.31	1 gal	0.8 L
735		6.74	1537	-71	0.42	3.60	10.3	20.31		2.0
738		6.80	1531	-74	0.41	3.24	10.8	20.31		3.2
741		6.84	1526	-71	0.45	3.12	10.8	20.31		4.4
744		6.88	1529	-72	0.40	4.11	10.8	20.31	2 gal	5.6
747		6.90	1530	-70	0.44	3.46	10.7	20.31		6.8
750	↓	6.92	1528	-72	0.44	4.12	10.8	20.31		8.0 (=2.1 gal)
		✓	✓	✓	✓	✓	✓	✓		

↑ All + 2L before data collection = 10L = 2.6 gal

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 857633987974
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Keller	DATE SIGNED: 7/6/06

PAGE ____ OF ____

WATER SAMPLE LOG

Elev. 859.04

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/28/06	BY: MLW DATE: 8/3/06

SAMPLE ID: Co. Park 2 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☒ OTHER 6/8"

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☒ OTHER Steel

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 900	DATE: 6/28/06	SAMPLE	TIME: 950	DATE: 6/28/06
PURGE METHOD: ☒ PUMP 1.25 gal/min ☐ BAILER			PH: 7.27 SU	CONDUCTIVITY: 765 umhos/cm	
			ORP: 4 mv	DO: 1.29 mg/L	
DEPTH TO WATER: ~ T/ PVC			TURBIDITY: 3.59 NTU		
DEPTH TO BOTTOM: ~ T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.7 °C	OTHER:	
VOLUME REMOVED: ~120 ☒ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Light yellow			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
925	500 mL/min								INITIAL 32.5 gal
930		7.31	762	3	1.27	5.79	11.3	—	+ 2.
933		7.24	764	3	1.36	4.1	11.2	—	4.
936		7.23	763	6	1.29	2.45	11.0	—	5.
939		7.24	761	5	1.35	3.74	11.3	—	7.
942		7.24	762	5	1.31	3.68	11.5	—	8.
~~945~~ 945		7.27	765	4	1.29	3.59	11.7	—	12.
950									?
		✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1~~ ~~COND.: +/-~~ ~~ORP: +/- 10~~ ~~D.O.: +/- 0.1~~ ~~TURB: +/- 0.1~~ OR </= 5 ~~TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____ (See Attached)

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 8576 3 398 9774
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

30

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/28/06	BY: MLW	DATE: 8/30/06

SAMPLE ID: MW03 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1040	DATE: 6/28/06	SAMPLE	TIME: 1100	DATE: 6/28/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.11 SU	CONDUCTIVITY: 1953 umhos/cm	
			ORP: -11.0 mv	DO: 0.48 mg/L	
DEPTH TO WATER: 12.78 T/ PVC			TURBIDITY: 4.36 NTU		
DEPTH TO BOTTOM: ___ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ___ [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.0 °C	OTHER:	
VOLUME REMOVED: ~~2.5~~ 2 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1044	450 mL/min								INITIAL	All +1.8 L pre-data check
1045		7.16	1954	-97	1.13	18.1	10.7	12.78	~~0.5~~	0.5 L
1048		7.13	1955	-99	0.80	9.06	9.9	12.78		1.8
1051		7.10	1960	-102	0.50	7.26	9.8	12.78		3.2
1054		7.10	1956	-106	0.43	4.21	10.2	12.78		4.5
1057		7.10	1954	-109	0.53	4.09	9.9	12.78		5.7
1100		7.11	1953	-110	0.48	4.36	10.0	12.78	1.5 gal	7.2 (~1.9 gal)

= 9.0 L
= 2.4 gal

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES See Attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ___							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [X] N
				[ ] Y [ ] N					[ ] Y [X] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 857633989774
COC NUMBER: ~~8576~~ STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/28/06	BY: MW DATE: 8/30/06

SAMPLE ID: Thiele | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER Carboy

PURGING	TIME: 1150	DATE: 6/28/06	SAMPLE	TIME: 1215	DATE: 6/28/06

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: ____ T/ PVC

DEPTH TO BOTTOM: ____ T/ PVC

WELL VOLUME: ~ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~100 ☐ LITERS ☒ GALLONS

COLOR: Colorless

TURBIDITY: ____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER Drain

PH: 7.18 SU | CONDUCTIVITY: 1517 umhos/cm

ORP: -185 mv | DO: 0.41 mg/L

TURBIDITY: 4.25 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 7.8 °C | OTHER: ____

COLOR: Colorless | ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR: ____~~ | ~~FILTRATE ODOR: ____~~

~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
						10.0			~~INITIAL~~
1155	12L/min	7.50	1426	-210	0.60	70 NTU	7.0	—	
1200		7.22	1455	-184	0.54	9.61	6.8	—	
1203		7.19	1505	-181	0.57	4.37	7.1	—	
1206		7.17	1510	-195	0.42	3.07	7.2	—	
1209		7.15	1514	-189	0.53	5.55	7.5	—	
1212		7.18	1516	-187	0.42	5.47	7.7	—	
1215	↓	7.18	1517	-185	0.41	~~5.37~~ NTU 4.25	7.8	—	
									?
		✓	✓	✓	✓	✓	✓		

? + 10 16 19 22 25 28

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 8576 3398 9774
COC NUMBER: STL-WM	SIGNATURE: Katherine R Keller	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/28/06	BY: MW DATE: 8/3/06

SAMPLE ID: F135 B | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1350	DATE: 6/28/06	SAMPLE	TIME: 1353	DATE: 6/28/06
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 7.11 SU	CONDUCTIVITY: 677 umhos/cm	
			ORP: -114 mv	DO: 0.58 mg/L	
DEPTH TO WATER: 41.04 T/ PVC			TURBIDITY: 3.19 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 8.3 °C	OTHER:	
VOLUME REMOVED: 4.3 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP:~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1337	450							41.04	INITIAL	0 L
1341		6.95	686	-107	0.60	4.65	8.1	41.04		5
1344		6.98	692	-110	0.55	2.84	8.0	41.04	1.5 gal	6.5
1347		7.03	681	-112	0.63	2.16	8.3	41.04		8.0
1350		7.09	679	-113	0.57	2.12	9.4	41.04		9.5
1353		7.11	677	-114	0.58	3.19	8.3	41.04	2.25 gal	11.0 (~2.9 gal)
1356										
1359	↓	✓	✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 8576 5918 9774 ✓
COC NUMBER: STL-MM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/28/06	BY: MW DATE: 8/30/06

SAMPLE ID: MW07 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1405	DATE: 6/28/06	SAMPLE	TIME: 1639	DATE: 6/28/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.83 SU	CONDUCTIVITY: 1354 umhos/cm	
			ORP: -105 mv	DO: 0.42 mg/L	
DEPTH TO WATER: ~ T/ PVC slowing			TURBIDITY: 12.7 NTU		
DEPTH TO BOTTOM: ~ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ~ [ ] LITERS [ ] GALLONS			TEMPERATURE: 12.4 °C	OTHER:	
VOLUME REMOVED: ~10 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [X] MS/MSD [X] DUP-02		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: MS1(40ml) MS1 Dup (MW02)		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	Ac x 3 = 1.2 gal
1610	600mL/min								INITIAL	0
1614		6.71	1367	-100	0.45	68.9	11.2	—		2.4
1617		6.88	1375	-101	0.95	54.4	11.0	—		4.2
1620		6.86	1376	-105	0.48	37.1	11.1	—		6.0
1623		6.85	1379	-104	0.46	27.4	11.0	—	4.6 NK gal	7.8
1626		6.84	1379	-104	0.42	20.1	10.9	—		9.6
1629		6.83	1381	-104	0.39	15.0	10.8	—	4.5 gal	11.4
1633		6.81	1383	-104	0.44	13.2	10.7	—		13.2
1637		6.51	1383	-105	0.41	12.8	10.5			15
1639		6.82	1384	-105	0.42	12.4	10.4			16.8
1641	✓	✓	✓	✓	✓	✓	✓	?		(+

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 3 TEMP.: +/- 0.5°C~~

= 19.2 gal = 5

BOTTLES FILLED	PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -	See Attached - 4 sets

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 855633597774
COC NUMBER: STL-WI,M	SIGNATURE: Nathaniel Kelly	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/28/06	BY: MLW DATE: 8/30/06

SAMPLE ID: FB01 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER QCW

PURGING	TIME:	DATE:	SAMPLE	TIME: 1010	DATE: 6/28
PURGE METHOD: ☐ PUMP ☐ BAILER			PH: 7.71 SU	CONDUCTIVITY: / umhos/cm	
			ORP: 123 mv	DO: 5.57 mg/L	
DEPTH TO WATER: ____ T/ PVC			TURBIDITY: 1 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 23.5 °C	OTHER:	
VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS			COLOR: Color less	ODOR: None	
COLOR:			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSE ☐ DUP.		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

NA

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: See Attached — A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/28/06	AIRBILL NUMBER: 857633998774
COC NUMBER: STL-WM	SIGNATURE: Michael Kelly	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/29/06	BY: MW DATE: 8/2/06

SAMPLE ID: P64C | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Flow Rt?

PURGING	TIME: 735	DATE: 6/29/06	SAMPLE	TIME: 810	DATE: 6/29/06
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 6.57 SU	CONDUCTIVITY: 1054 umhos/cm	
			ORP: -54 mv	DO: 2.35 mg/L	
DEPTH TO WATER: 11.77 T/ PVC			TURBIDITY: 2.04 NTU		
DEPTH TO BOTTOM: — T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.7 °C	OTHER:	
VOLUME REMOVED: ~4 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			~~FILTRATE (0.45 um) [ ] YES [ ] NO~~		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
750	400							11.77	INITIAL	?
752		6.76	1049	-52	3.00	12.0	10.6	11.77		+ 0.8
755		6.71	1060	-53	2.75	8.17	10.6	11.71		2.0
758		6.66	1073	-54	2.45	3.79	10.6	11.71		3.2
801		6.63	1075	-54	2.39	2.92	10.7	11.71		4.8
804		6.60	1051	-55	2.29	2.08	10.6	11.71	2 gal	5.6
807		6.58	1083	-53	2.30	2.11	10.7	11.71		6.8
810		6.57	1084	-54	2.25	2.04	10.7	11.71		8.0
										(v

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 557362033845
COC NUMBER: STL-WI1	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/29/06	BY: MW	DATE: 8/30/06

SAMPLE ID: CW7 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [X] OTHER 12"

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [X] OTHER Steel

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Pump On 8:50 @ ~700 gpm

PURGING	TIME: 8:50	DATE: 6/29/06	SAMPLE	TIME: 9:11	DATE: 6/29/06

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: ~10 [ ] LITERS [X] GALLONS

COLOR: Colorless

TURBIDITY: None

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [ ] DRUM [X] OTHER Plain

PH: 6.86 SU — CONDUCTIVITY: 719 umhos/cm

ORP: -113 mv — DO: 0.42 mg/L

TURBIDITY: 1.39 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 11.2 °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

QC SAMPLE: [X] MS/MSD [ ] DUP- 03

COMMENTS: MSD (CW7) ~~MSD~~ (CW7)

VOCs Only

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
8:50	550								INITIAL	5.6
8:59	↓	6.86	721	-105	0.62	2.14	10.7	—		6.2
9:02	↓	6.88	720	-109	0.47	1.21	10.7	—		7.8
9:05	↓	6.88	721	-111	0.42	1.50	11.0	—		9.5
9:08	↓	6.87	720	-112	0.42	1.49	11.1	—		11.1
9:11	↓	6.86	719	-113	0.47	1.39	11.2	—		12.8
										(~3.4 gal)
		✓	✓	✓	✓	✓	✓	?		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 857362033845
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Keller	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/21/06	BY: MLW	DATE: 8/31/06

SAMPLE ID: MW03A1 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1105	DATE: 6/29/06	SAMPLE	TIME: 1142	DATE: 6/29/06

PURGE METHOD: [X] PUMP [ ] BAILER

PH: 8.63 SU | CONDUCTIVITY: 580 umhos/cm

ORP: 83 mv | DO: 2.08 mg/L

DEPTH TO WATER: 20.80 T/ PVC

TURBIDITY: >1000 NTU

DEPTH TO BOTTOM: — T/ PVC

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

WELL VOLUME: — [ ] LITERS [ ] GALLONS

TEMPERATURE: 23.6 °C | OTHER:

VOLUME REMOVED: 1 [ ] LITERS [X] GALLONS

COLOR: lt brown | ODOR: None

COLOR: lt brown

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: lt brown | FILTRATE ODOR:

[X] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

QC SAMPLE: [ ] MS/MSD [ ] DUP-

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

COMMENTS: 2 Metals Filtered MW03A2

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1109							20.9	21.61	INITIAL
1112	~50 ml/min	8.72	587	58	6.78	>1000	15 ~~21.00~~	21.73	0.2
1115		8.73	589	90	5.73	>1000	22.4	21.84	0.3
1118		8.74	589	93	6.31	>1000	22.6	21.87	0.5
1121		8.75	590	96	6.19	>1000	23.0	21.90	0.6
1124		8.69	584	98	4.35	>1000	23.1	21.92	0.8
1127		8.63	578	94	3.62	>1000	22.9	21.96	0.9
1130		8.65	580	96	3.13	>1000	23.2	22.02	1.1
1133		8.63	579	89	2.92	>1000	23.4	22.10	1.2
1136		8.62	580	82	2.06	>1000	23.3	22.14	1.4
1139		8.61	578	79	1.97	>1000	23.7	22.19	1.5

CONTINUED ON NEXT PAGE

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached Sheet

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

OK - on p

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 857362033845
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE:	BY: MLW	DATE: 8/31/06

SAMPLE ID: MW03A1 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME:	DATE:	SAMPLE	TIME:	DATE:
PURGE METHOD: [ ] PUMP [ ] BAILER			PH: SU	CONDUCTIVITY: umhos/cm	
			ORP: mv	DO: mg/L	
DEPTH TO WATER: T/ PVC			TURBIDITY: NTU		
DEPTH TO BOTTOM: T/ PVC			[ ] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: [ ] LITERS [ ] GALLONS			TEMPERATURE: °C	OTHER:	
VOLUME REMOVED: [ ] LITERS [ ] GALLONS			COLOR:	ODOR:	
COLOR:			FILTRATE (0.45 um) [ ] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
[ ] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP		
DISPOSAL METHOD: [ ] GROUND [ ] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11 42	50 mL/min	8.03	580	83	2.08	>1000	23.6	22.21	~~INITIAL~~
	✓	✓	✓	✓	✓	✓	✓	✓	

1.7 (~0.4 gal)

All + 0.2 L pre-data = 1.9 L (0.5 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES See Attached * A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	pl	B	[X] Y [ ] N					[ ] Y [ ] N
1	16oz	pl	B	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

2 ~~+ 1~~ metals bottles MW03A2

SHIPPING METHOD: See	DATE SHIPPED: Previous	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/24/06	BY: MLW DATE: 8/31/06

SAMPLE ID: F137A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1413	DATE: 6/24/06	SAMPLE	TIME: 1445	DATE: 6/24/06
PURGE METHOD: ☒ PUMP Stabilok ☐ BAILER			PH: 6.17 SU	CONDUCTIVITY: 1376 umhos/cm	
			ORP: -81 mv	DO: 0.76 mg/L	
DEPTH TO WATER: 25.50 T/ PVC			TURBIDITY: 18.3 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.3 °C	OTHER:	
VOLUME REMOVED: ~4 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Light orange			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP:~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
	400mL/min								~~INITIAL~~	~~0.5~~
~~1417~~		6.31	1313	-85	.99	247	12.6	25.50		0.8
1421		6.20	1338	-82	0.74	176	12.7	25.50		2.0
1424		6.23	1339	-84	0.64	123	13.5	25.50		3.2
1427		6.19	1359	-83	0.50	94.9	12.9	25.50		4.4
1430		6.17	1360	-83	0.49	103	12.6	25.50		5.6
1433		6.15	1368	-84	0.43	85.3	13.7	25.50		6.8
1436	↓	6.18	1366	-84	0.43	94.7	13.1	25.50		8.0
1439		6.18	1372	-83	0.42	102	13.2	25.50		9.2
1442		6.17	1376	-81	0.40	90.3	13.3	25.50		10.4
		✓	✓	✓	✓	OK	✓	✓		0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1~~ COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 ~~ORP: +/- 5~~ ~~TEMP.: +/- 0.5°C~~

BOTTLES FILLED		PRESERVATIVE CODES: See Attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 855736033845
COC NUMBER: SK-WM	SIGNATURE: Matthew P Kelly	DATE SIGNED: 7/6/06

40

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/29/06	BY: MLW DATE: 8/31/06

SAMPLE ID: E137B | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1515	DATE: 6/29/06	SAMPLE	TIME: 1537	DATE: 6/29/06
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 6.44 SU	CONDUCTIVITY: 1500	umhos/cm
			ORP: -109 mv	DO: 0.31 mg/L	
DEPTH TO WATER: 25.51 T/ PVC			TURBIDITY: 17.6 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.3 °C	OTHER:	
VOLUME REMOVED: 13.5 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: Slight	
COLOR: Colorless			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE~~ ☐ MS/MSD ☐ DUP		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	(L)
317	400								INITIAL	0.8
319	1	6.51	1474	-79	0.61	63.2	13.7	25.83		1.6
322	1	6.49	1501	-98	0.32	67.3	13.7	25.83		2.8
325	1	6.45	1498	-103	0.33	34.3	14.0	25.87		4.0
328	1	6.43	1502	-106	0.3	22.5	14.1	25.83		5.2
331	1	6.42	1503	-108	0.31	19.1	14.1	25.83		6.4
334	1	6.42	1505	-108	0.34	18.4	14.2			7.6
1537	↓	6.44	1500	-109	0.31	17.6	14.3			9.8
										~~10.2~~
		✓	✓	✓	✓	✓	✓	↓		(~2.3 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES See Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☒ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 857362083845
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Hall	DATE SIGNED: 7/6/06

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/21/06	BY: MLW DATE: 8/31/06

SAMPLE ID: E93D | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1635	DATE: 6/29/06	SAMPLE	TIME: 1720	DATE: 6/29/06
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 6.75 SU	CONDUCTIVITY: 1502 umhos/cm	
			ORP: -69 mv	DO: 0.61 mg/L	
DEPTH TO WATER: 23.45 T/ PVC			TURBIDITY: 0.89 NTU		
DEPTH TO BOTTOM: — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.3 °C	OTHER:	
VOLUME REMOVED: 4 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: —			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP.~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	L
1641	400 mL/min								INITIAL	1.2
1642		6.62	1502	-63	1.11	3.76	12.2	~~23~~ 23.45		1.6
1645		6.62	1503	-66	1.04	2.45	12.1	23.45		2.8
1648		6.61	1502	-68	0.84	1.52	12.0	23.45		4.0
1651		6.63	1504	-69	0.69	1.47	12.2	23.45		5.2
1654		6.69	1501	-69	0.64	0.97	12.2	23.45		6.4
1657		6.74	1504	-69	0.62	0.92	12.4	23.45		7.6
1700	✓	6.75	1502	-69	0.61	0.84	12.3	23.45		8.8
										12.3
		✓	✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR +/- 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED

PRESERVATIVE CODES See Attached Sheet

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☒ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☒ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/29/06	AIRBILL NUMBER: 8578 2073 845
COC NUMBER: STL-WI4	SIGNATURE: Matthew R Hall	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/30/06	BY: MLW	DATE: 8/31/06

SAMPLE ID: MW05 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 10^10	DATE: 6/30/06	SAMPLE	TIME: 10^36	DATE: 6/30/06

PURGE METHOD: [X] PUMP Bladder [ ] BAILER

DEPTH TO WATER: 5.65 T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: ~4 [ ] LITERS [X] GALLONS

COLOR: Colorless

TURBIDITY:

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.08 SU — CONDUCTIVITY: 1365 umhos/cm

ORP: -121 mv — DO: 0.5 mg/L

TURBIDITY: 2.02 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 11.7 °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QS SAMPLE: [ ] MS/MSD [ ] DUP:~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	L
10^12	475							5.65	INITIAL	1.0
10^14		7.06	1370	-104	4.40	3.46	11.7	5.65		1.9
10^17		7.07	1371	-112	1.40	3.41	11.7	5.65		3.3
10^20		7.07	1377	-114	1.06	3.41	11.7	5.65		4.8
10^23		7.09	1369	-118	0.90	4.91	11.7	5.65		6.2
10^26		7.08	1374	-123	0.62	2.84	11.7	5.65		7.6
10^27		7.08	1372	-124	0.63	2.50	11.7	5.65		8.1
10^30		7.09	1371	-120	0.57	1.87	11.8	5.65		9.5
10^33		7.10	1373	-125	0.59	2.16	11.8	5.65		10.9
10^34		7.08	1368	-121	0.58	2.02	11.7	5.65		12.4
		✓	✓	✓	✓	✓	✓	✓		

(~3.3 gal)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1~~ COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 ~~TURB: +/- 0.1 OR <= 5~~ ~~TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[X] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 6/30/06	AIRBILL NUMBER: —
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/30/06	BY: MLW DATE: 8/31/06

SAMPLE ID: MW01A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 835	DATE: 6/30/06	SAMPLE	TIME: 907	DATE: 6/30/06

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER

DEPTH TO WATER: 20.41 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 4.5 ☐ LITERS ☒ GALLONS

COLOR: Colorless

TURBIDITY: —

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.13 SU CONDUCTIVITY: 1434 umhos/cm

ORP: -150 mv DO: 0.43 mg/L

TURBIDITY: 1.73 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.7 °C OTHER: —

COLOR: Color less ODOR: None

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: — FILTRATE ODOR: —

~~QC SAMPLE~~: ☐ MS/MSD ☐ DUP

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALOR L)	L
835	400 ml/m							20.41	INITIAL	1.6
840	~~7.34~~ 7.34	1427		-119	1.38	2.69	12.6	20.41		2.0
843		7.18	1435	-115	1.02	11.3	12.4	20.41		3.2
846		7.16	1432	-125	0.61	3.13	12.5	20.41		4.4
849		7.16	1439	-136	0.48	4.65	12.5	20.41		5.6
852		7.16	1440	-138	0.44	3.86	12.5	20.41		6.8
855		7.16	1436	-141	0.42	2.89	12.6	20.41		8.0
858		7.16	1436	-148	0.39	1.91	12.6	20.41		9.2
901		7.14	1437	-150	0.40	1.76	12.6	20.41		10.4
904	↓	7.13	1434	-150	0.43	1.73	12.7	20.41		10.6
		✓	✓	✓	✓	✓	✓	✓		(~2.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1~~ ~~COND.: +/-~~ ~~ORP: +/- 10~~ ~~D.O.: +/- 0.1~~ TURB: +/- 0.1 OR </= 5 ~~TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: See attached A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/30/06	AIRBILL NUMBER: —
COC NUMBER: STL-WM	SIGNATURE: Nathaniel Roth	DATE SIGNED: 7/6/06

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/30/06	BY: MLW DATE: 9/31/06

SAMPLE ID: MW01 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 735	DATE: 6/30/06	SAMPLE	TIME: 756	DATE: 6/30/06
PURGE METHOD: [X] PUMP bladder / [ ] BAILER			PH: 6.53 SU	CONDUCTIVITY: 1697 umhos/cm	
			ORP: -122 mv	DO: 0.39 mg/L	
DEPTH TO WATER: 8.52 T/ PVC			TURBIDITY: 33.7 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.07 °C	OTHER:	
VOLUME REMOVED: 3.5 [ ] LITERS [X] GALLONS			COLOR: colorless	ODOR: None	
COLOR: colorless			FILTRATE (0.45 um) [X] YES [X] NO		
TURBIDITY: ____			FILTRATE COLOR: ____	FILTRATE ODOR: ____	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE:~~ [ ] ~~MS/MSD~~ [ ] ~~DUP~~		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: MW01F filtered for metals		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
737	480							21.52	INITIAL	1.0
735	↓	6.53	1687	16	2.47	208	11.8	21.52		1.4
741		6.35	1692	-92	1.27	22.8	11.7	21.52		2.9
744		6.32	1693	-106	0.68	20.8	11.7	21.53		4.3
747		6.43	1699	-112	0.53	20.6	11.7	21.52		5.8
750	↓	6.49	1700	-118	0.49	30.4	11.6	21.52		7.2
753		6.46	1696	-119	0.39	33.6	11.6	21.52		8.6
756		6.53	1696	-122	0.39	33.7	11.7	21.52		10.1
759										(~2.75 gal)
		✓	✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~PH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED | PRESERVATIVE CODES and see Attached | A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1602	PL	B	[X] Y [ ] N					[ ] Y [ ] N
1	1607	PL	B	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/30/06	AIRBILL NUMBER: ____
COC NUMBER: STL-WM	SIGNATURE: Matthew Kelly	DATE SIGNED: 7/6/06

PAGE _____ OF _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: NRK	DATE: 6/30/06	BY: MLW	DATE: 8/30/06

SAMPLE ID: Seybold — WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER Unknown

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1145	DATE: 6/30/06	SAMPLE	TIME: 1229	DATE: 6/30/06

PURGE METHOD: ☒ PUMP 10gal/min ☐ BAILER

PH: 6.93 SU — CONDUCTIVITY: 389 umhos/cm

ORP: -187 mv — DO: 0.51 mg/L

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

TURBIDITY: 1.21 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: — ☐ LITERS ☐ GALLONS

TEMPERATURE: 19.3 °C — OTHER:

VOLUME REMOVED: ~110 ☐ LITERS ☒ GALLONS

COLOR: Colorless — ODOR: None

COLOR: Colorless

FILTRATE (0.45 um) ☐ YES ☒ NO

TURBIDITY:

FILTRATE COLOR: — FILTRATE ODOR:

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

QC SAMPLE: ☐ MS/MSD ☐ DUP

DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1155	1L/min								100 ~~INITIAL~~	
1156		7.51	383	-171	0.70	2.41	14.9	—		+1L
1159		7.13	386	-167	1.71	1.22	16.6	—		4
1202		7.05	388	-167	1.56	1.14	17.3	—		7
1205		7.03	388	-170	1.37	1.05	17.6	—		10
1208		7.03	388	-173	1.14	2.26	17.6	—		13
1211		7.02	388	-177	1.06	1.20	17.9	—		16
1214		6.98	389	-180	0.87	1.53	18.1	—		19
1217		6.96	389	-182	0.81	1.36	18.4	—		22
1220		6.94	389	-183	0.70	1.19	18.9	—		25
1223		6.93	389	-184	0.59	1.23	18.9	—	~108 gal	28L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES See Attached

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 6/30/06	AIRBILL NUMBER: —
COC NUMBER: STL-WM	SIGNATURE: [signature]	DATE SIGNED: 7/6/06

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: NRK DATE: 6/30/06	BY: MW DATE: 8/30/06

SAMPLE ID: Seybold | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER _____

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER DUP

PURGING	TIME:	DATE:	SAMPLE	TIME:	DATE:
PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mv	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: See ☐ LITERS ☐ GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
VOLUME REMOVED: PFC ☐ LITERS ☐ GALLONS			COLOR: _____	ODOR: _____	
COLOR: _____			FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY: _____			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- _____		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1202		6.97	359	-136	0.56	1.14	19.3	—	INITIAL
1207		6.93	359	-137	0.57	1.21	19.3	—	
		✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

~~pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR <= 5 TEMP.: +/- 0.5°C~~

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:

WATER LEVEL DATA

PROJECT NAME:	MSGRG	DATE:	1/3/07
PROJECT NUMBER:	7133.02	AUTHOR:	N. Keller

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATATION
MW07	935	799.21	(6.03+0.24)	NM	N/A	805.48
MW01A	1145	829.52	20.28+0.00			809.24
MW01B	1148	830.53	21.16			809.37
MW01	1150	830.66	21.39			809.27
MW02	1158	856.94	47.59			809.35
MW04A	1200	829.10	20.72			806.38
MW04	1205	829.39	20.13			809.26
MW03A	1230	821.69	14.88			806.81
MW03	1235	821.64	12.53			809.11
MW06	1330	802.10	(3.82+0.24)			806.16

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

Nathaniel R Keller 1/15/07
SIGNED DATE

T. Clemens 1-15-07
CHECKED DATE

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/4/07	BY: TH	DATE: 1-15-07

SAMPLE ID: MW01 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 9:50	DATE: 1/4/06	SAMPLE	TIME: 9:25	DATE: 1/4/07
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 7.14 SU	CONDUCTIVITY: 1705 umhos/cm	
			ORP: -109 mv	DO: 0.79 mg/L	
DEPTH TO WATER: 21.35 T/ PVC			TURBIDITY: 3.44 NTU		
DEPTH TO BOTTOM — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE ok [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.9 °C	OTHER:	
VOLUME REMOVED: ~3 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY: None			FILTRATE COLOR: colorless	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD~~ [ ] DUP-		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
855	300 ml/min	7.33	1707	72	4.70	34.3	11.0	21.35	INITIAL
900	350 ml/min	7.14	1704	-94	1.76	5.66	10.9	21.35	1.5L
905	↓	7.13	1706	-103	1.14	5.03	10.8	21.35	3.25L
910	↓	7.10	1709	-107	1.18	5.02	10.8	↓	5L
915	↓	7.13	1708	-109	0.73	4.07	10.9	↓	6.75
920	↓	7.14	1709	-110	0.88	3.92	10.8	↓	8.5
925	↓	7.14	1705	-109	0.79	3.44	10.9	↓	10.25
930									
		✓	✓	✓	✓	15%	✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	None	[ ] Y [X] N	1	16oz	pl	C	[ ] Y [X] N
1	8oz	pl	↓	[ ] Y [X] N	1	↓	↓	B	[X] Y [ ] N
1	↓	↓	↓	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 8599299363 78 0
COC NUMBER: STL OCT Labs	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 1/15/07

85992993 6367

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/4/07	BY: TMC	DATE: 1/15/07

SAMPLE ID: MW01A | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1000	DATE: 1/4/07	SAMPLE	TIME: 1030	DATE: 1/4/07
PURGE METHOD: [X] PUMP [ ] BAILER			PH: 7.04 ✓ SU	CONDUCTIVITY: 1447 ✓ umhos/cm	
			ORP: -137 ✓ mv	DO: 0.97 ✓ mg/L	
DEPTH TO WATER: 20.27 T/ PVC 0.00			TURBIDITY: 1.10 ✓ NTU		
DEPTH TO BOTTOM — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 11.0 °C	OTHER:	
VOLUME REMOVED: ~3.2 [ ] LITERS [X] GALLONS			COLOR: Colorless ✓	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY: —			FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: —		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1000	200 mL/m	7.46	1426	"	6.04	8.91	10.8	20.27	INITIAL
1005	400	7.21	1439	-105	2.30	18.3	11.2	20.27	1L
1010	↓	7.07	1446	-123	1.08	3.63	11.1	20.27	3L
1015	↓	7.05	1447	-125	1.01	1.60	11.0	20.27	5L
1020	↓	7.05	1447	-135	1.00	1.10	11.0	20.27	7L
1025	↓	7.05	1448	-137	0.98	1.21	11.0	20.27	9L
1030	↓	7.04	1447	-137	0.97	1.10	11.0	20.27	11L
		✓	✓	✓	✓	✓	✓	✓	
						97.			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	[ ] Y [X] N	1	1liter	pl	H_2SO_4	[ ] Y [X] N
1	500	pl	↓	[ ] Y [X] N	1	↓	↓	HNO_3	[X] Y [ ] N
1	↓	↓	↓	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 8549 3193 6378 0	8549 2193 6367
COC NUMBER: STL-CT Labs	SIGNATURE: Nathaniel Keller	DATE SIGNED: 1/15/07	

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/4/07	BY: TH	DATE: 1-15-07

SAMPLE ID: MW01B — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 750	DATE: 1/4/07	SAMPLE	TIME: 920	DATE: 1/4/07
PURGE METHOD: [X] PUMP Peri. Bladder [ ] BAILER			PH: 8.14 SU	CONDUCTIVITY: 302 umhos/cm	
			ORP: -134 mv	DO: 1.05 mg/L	
DEPTH TO WATER: 21.17 T/ PVC + C.CO			TURBIDITY: 0.51 NTU		
DEPTH TO BOTTOM ___ T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ___ [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.3 °C	OTHER: ___	
VOLUME REMOVED: 2.75 [ ] LITERS [X] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: Slight Gw			FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY: ___			FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP~~		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
750	450	7.06	313	157	6.15	0.98	11.0	21.74	INITIAL
755	400	7.82	290	-35	1.03	1.43	10.7	21.83	2.25L
900	400	8.04	299	-93	4.61	1.43	10.9	----	4.25
905	200mL/min	8.11	299	-123	1.12	1.70	9.9	21.65	6.25
910	↓	8.12	301	-132	1.04	1.81	10.3	21.56	7.25
915		8.12	301	-130	1.03	0.94	10.4	21.47	8.25
920		8.14	302	-134	1.05	0.51	10.3	21.43	9.25
		✓	✓	✓	✓		✓	✓	
						?			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ___

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	A	[ ] Y [X] N	1	1L	PL	H_2SO_4	[ ] Y [X] N
1	8oz	PL	↓	[ ] Y [X] N	1	↓	↓	HNO_3	[X] Y [ ] N
1	↓	↓		[ ] Y [X] N					[ ] Y [ ] N

16oz

SHIPPING METHOD: FedEx	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 859929936378
COC NUMBER: STL & CT Labs	SIGNATURE: Nathaniel P. Keller	DATE SIGNED: 1/15/07

859929936367

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/4/07	BY: TH2	DATE: 1-15-07

SAMPLE ID: MW02 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1530	DATE: 1/4/06	SAMPLE	TIME: 1600	DATE: 1/4/06

PURGE METHOD: [X] PUMP [ ] BAILER	PH: 7.02 ✓ SU; CONDUCTIVITY: 985 ✓ umhos/cm; ORP: -97 ✓ mv; DO: 1.11 mg/L
DEPTH TO WATER: 47.58 T/ PVC	TURBIDITY: 1.35 ✓ NTU
DEPTH TO BOTTOM — T/ PVC	[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY
WELL VOLUME: — [ ] LITERS [ ] GALLONS	TEMPERATURE: 10.6 ✓ °C; OTHER:
VOLUME REMOVED: ~2.5 [ ] LITERS [X] GALLONS	COLOR: Colorless; ODOR:
COLOR: Colorless; ODOR: None	FILTRATE (0.45 um) [X] YES [ ] NO
TURBIDITY:	FILTRATE COLOR: Colorless; FILTRATE ODOR:
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY	~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1535	300	7.27 ~~7.94~~	991	-73	3.40	4.87	10.6	47.58	INITIAL
1540	↓	7.20	978	-94	1.41	3.26	10.6	47.58	1.5L
1545	↓	7.10	980	-96	1.45	1.68	10.6	47.58	3L
1550	↓	7.06	982	-96	1.19	1.15	10.6	47.58	4.5L
1555	↓	7.04	984	-98	1.12	1.28	10.6	47.58	6L
1600	↓	7.02	985	-97	1.11	1.35	10.6	47.58	7.5L
		✓	✓	✓	✓		✓	✓	
						17%			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
40	40mL	gl	A	[ ] Y [X] N	1	16oz	pl	C	[ ] Y [X] N
1	8oz	pl	↓	[ ] Y [X] N	1	↓	↓	B	[X] Y [ ] N
1	↓	↓	↓	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 8599299363780 8599294 6367
COC NUMBER: STL PCT Labs	SIGNATURE: [signature]	DATE SIGNED: 1/4/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/4/07	BY: THL DATE: 1-15-07

SAMPLE ID: MW03 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 2:00	DATE: 1/4/07
PURGE METHOD:	[X] PUMP [ ] BAILER	
DEPTH TO WATER: 12.48 T/ PVC		
DEPTH TO BOTTOM — T/ PVC		
WELL VOLUME: —	[ ] LITERS [ ] GALLONS	
VOLUME REMOVED: 10	[X] LITERS [ ] GALLONS	
COLOR: Colorless	ODOR: None	
TURBIDITY:		
[X] NONE	[ ] SLIGHT [ ] MODERATE [ ] VERY	
DISPOSAL METHOD	[ ] GROUND [X] DRUM [ ] OTHER	

SAMPLE	TIME: 1/4/07	DATE: 1/4/07
PH: 7.12 SU	CONDUCTIVITY: 1998 umhos/cm	
ORP: −118 mv	DO: 1.20 mg/L	
TURBIDITY: 1.84 NTU		
[X] NONE	[ ] SLIGHT [ ] MODERATE [ ] VERY	
TEMPERATURE: 10.8 °C	OTHER:	
COLOR: Colorless	ODOR:	
FILTRATE (0.45 um)	[X] YES [ ] NO	
FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
QC SAMPLE: [X] MS/MSD	[X] DUP: D2	
COMMENTS: for Every thing but VOCs		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
2:00	400 mL/min	7.14	1978	-42	7.65	2.71	11.0	12.48	INITIAL
2:05	↓	7.08	1992	-106	1.29	3.22	10.9	12.48	2L
2:10		7.09	1994	-113	1.26	1.72	10.9	12.48	4L
2:15 2:20		7.09	1996	-114	1.19	1.84	10.9	12.48	6L
14:30		7.10	1997	-118	1.23	1.47	10.8	12.48	8L
14:25	↓	7.12	1998	-118	1.20	1.84	10.8	12.48	10L
14:30		✓	✓	✓	✓	?	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40ml	gl	A	[ ] Y [X] N	3	16oz	gl	C	[ ] Y [X] N
3	8oz	gl	↓	[ ] Y [X] N	3	↓	↓	B	[X] Y [ ] N
3	↓	↓	↓	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 8549 2436 3378	8549 2436 3367
COC NUMBER:	SIGNATURE: Nathaniel Keller	DATE SIGNED: 1/15/07	

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/4/07	BY: TMZ	DATE: 1-15-07

SAMPLE ID: MW03A — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1155	DATE: 1/4/07	SAMPLE	TIME: 1310	DATE: 1/4/07

PURGE METHOD: [X] PUMP Sed Bladder [ ] BAILER

DEPTH TO WATER: 14.77 T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 4.25 [ ] LITERS [X] GALLONS

COLOR: lt grey to brown ODOR: None

TURBIDITY: —

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 8.38 SU — CONDUCTIVITY: 485 umhos/cm

ORP: -173 mv — DO: 1.06 mg/L

TURBIDITY: ~~478~~ NK NTU 478 — jumped around

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

TEMPERATURE: 10.7 °C — OTHER:

COLOR: V. lt grey — ODOR: None

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: Colorless — FILTRATE ODOR: None

~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1155	700	8.27	486	18	13.66	36.9 NK 1/4/07	10.9	14.77	INITIAL
1158	↓							20.31	2.1 L
1200	300 mL/min	8.38	498	-150	1.02	106	10.8	22.81	2.7 L
1205	150	8.39	496	-142	1.01	82.2	10.8	24.95	3.5 L
1210	↓	8.40	496	-137	1.05	79.8	10.7	25.45	4.25 L
1215		8.41	492	-130	2.58	74.0	10.7	26.10	5
1220	500 mL/min	8.42	491	-132	2.03	76.6	10.7	26.35	7.5 L
1225		8.41	470	-162	0.83	99.3	10.8	30.08	10 L
1230	150	8.41	479	-178	0.68	147	10.8	33.12	10.75
1235	100	8.38	486	-184	0.70	239	10.6	34.06	11.25
1240	↓	8.40	487	-175	0.82	276	10.5	34.10	11.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

too much drawdown

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 ml	gl	A	[ ] Y [X] N	1	16 oz	pl	C	[ ] Y [X] N
1	8 oz	pl	↓	[ ] Y [X] N	1	↓	↓	B	[X] Y [ ] N
1	↓	↓		[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/4/07	AIRBILL NUMBER: 8599 299 363 780
COC NUMBER: STL → CT Labs	SIGNATURE: Nathaniel Aldrich	DATE SIGNED: 1/15/07

859

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/4/06	BY: DATE:

SAMPLE ID: MW03A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: ~~1245~~	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME:	DATE:

PH: _____ SU | CONDUCTIVITY: _____ umhos/cm

ORP: _____ mv | D.O.: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C | OTHER: _____

COLOR: _____ | ODOR: _____

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: _____ | FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1245	100	8.40	487	-168	0.82	297	10.5	33.96	~~INITIAL~~ 12.25
1250		8.39	489	-170	0.92	392	10.5	33.79	13.75
1255		8.38	491	-172	0.91	480	10.6	33.70	13.25
1300		8.37	491	-168	1.00	543	10.6	33.62	13.75
1305		8.36	488	-175	1.04	505	10.6	33.65	14.25
1310		8.38	485	-173	1.06	478	10.7	33.60	14.75
		✓	✓	✓	✓	12%	✓	=	✓
								Δwl	
								2' 18.8"	
								? over conv. SF	

.925 g / .075 g = 8% draw-down after settled or 100 ml/m purge rate.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: ~~+/-~~ 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/5/07	BY: TH2 DATE: 1-15-07

SAMPLE ID: MW04 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 10^15	DATE: 1/5/07	SAMPLE	TIME: 10^40	DATE: 1/5/07
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 6.86 SU	CONDUCTIVITY: 1563 umhos/cm	
			ORP: -217 mv	DO: 0.70 mg/L	
DEPTH TO WATER: 20.00 T/ PVC			TURBIDITY: 3.74 NTU	the turbidity @ sample time.	
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.6 C	OTHER:	
VOLUME REMOVED: 2.75 ☐ LITERS ☒ GALLONS			COLOR: None	ODOR: None	
COLOR: Color less	ODOR: None		FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10^20	450	6.93	1555	-211	1.23	1.87	10.7	20.20	INITIAL
10^25	↓	6.87	1558	-215	0.78	1.42	10.6	20.00	2.25L
10^30		6.85	1560	-216	0.75	1.79	10.7	20.20	4.5
10^35		6.85	1563	-218	0.72	2.71	10.6	20.20	6.75
10^40		6.86	1563	-217	0.70	3.74	10.6		9 L
10^45			✓	✓	✓	↑ turb.	✓	↓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N	1	16oz	pl	C	☐ Y ☒ N
1	8oz	pl	↓	☐ Y ☒ N	1	↓	↓	B	☒ Y ☐ N
1	↓	↓	↓	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 1/5/07 & 1/8/07 AIRBILL NUMBER: 675081131006 and 8592 7486 2480

COC NUMBER: STL & CT Labs SIGNATURE: Nathaniel Keller DATE SIGNED: 1/15/07

.284 L

6/16

(3/16)

PAGE _____ OF _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/5/07	BY: TTL	DATE: 1-15-07

SAMPLE ID: MW04A — WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 7 40	DATE: 1/5/07	SAMPLE	TIME:	DATE:
PURGE METHOD: ☒ PUMP Ded. Bladder ☐ BAILER			PH: _____ SU	CONDUCTIVITY: umhos/cm	
			ORP: _____ mv	DO: _____ mg/L	
DEPTH TO WATER: 22.65 T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM _____ T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: _____ °C	OTHER:	
VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS			COLOR: _____	ODOR:	
COLOR: _____ ODOR: Slt Sulfur			FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY: _____			FILTRATE COLOR: _____	FILTRATE ODOR:	
☐ NONE ☒ SLIGHT to ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

No Sample

Start of Farmer Spreading Manure

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
7 40	75	7.24	388	-116	1.85	>1000	9.5	22.85	INITIAL
7 45		7.60	397	-56	4.70	834	9.5	23.40	
7 50		7.62	407	-30	4.22	52.1	9.50	23.75	
7 55		8.33	404	-236	1.55	343	10.2	24.62	
8 00		8.34	407	-256	1.30	111	10.1	25.11	
8 05		8.35	409	-259	1.18	89.1	10.1	25.55	
8 10		8.39	412	-262	1.21	113	10.1	26.10	
8 15		8.39	413	-265	1.31	110	9.9	26.70	
8 20		8.40	414	-269	1.38	67.9	9.9	27.08	
8 35		8.39	416	-271	1.42	59.3	10.1	27.75	
8 30		8.38	416	-273	1.36	56.4	10.0	28.35	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: —	DATE SHIPPED: —	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 1/15/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE:	BY: JTH	DATE: 1-15-07

SAMPLE ID: MW04A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC PS

WELL VOLUME: see previous ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____ ODOR: _____

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME:	DATE:

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mv DO: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☒ MODERATE Sample ☐ VERY

TEMPERATURE: ND °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☐ YES ☐ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8:35		8.36	417	-274	1.20	39.1	10.0	28.95	INITIAL
8:40		8.35	417	-276	1.26	40.7	10.0	29.40	
8:45		8.35	417	-277	1.31	37.0	10.2	30.02	
8:50		8.35	417	-280	1.25	42.2	10.1	30.85	
8:55		8.35	417	-282	1.24	38.4	10.1	31.40	
9:00		8.32	417	-283	1.12	39.2	10.3	31.80	
9:05		8.33	417	-284	1.07	34.0	10.2	32.38	
9:10		8.31	415	-287	~~1.05~~	35.6	10.5	32.67	
9:15		8.29	416	-291	1.12	26.2	10.6	33.46	
9:20		8.28	414	-289	0.62	21.4	10.7	34.06	
9:25		8.22	411	-283	0.72	19.5	10.9	34.53	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:

RMT

PAGE _____ OF _____

Stabilization

~~WATER LEVEL DATA~~

Not Sampled

PROJECT NAME:	MSGRG	DATE:	1/5/06
PROJECT NUMBER:	7133.02	AUTHOR:	N. Keller

MW04A

~~WELL LOCATION~~	TIME	~~REFERENCE~~	~~DEPTH TO WATER (FEET)~~	DEPTH TO BOTTOM (FEET)	~~DEPTH TO PRODUCT (FEET)~~	WATER ELEVATATION

Time	PH	Cond.	ORP	Temp	Water Level	DO	Turbid
930	8.24	413	-285	10.8	35.10	1.31	20.9
935	8.26	413	-290	10.9	35.80	0.84	19.5
940	8.25	410	-289	11.0	36.30	1.17	19.4
945	8.26	409	-290	11.0	36.75	1.13	16.7
950	8.25	414	-288	11.0	37.33	0.79	17.2
~~935~~	✓	✓	✓	✓		✓	
1000							

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

SIGNED _____ DATE _____ CHECKED _____ DATE _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG		PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/3/07	BY: JH	DATE: 1-15-07	

SAMPLE ID: MW05 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1520	DATE: 1/3/07	SAMPLE	TIME: 1545	DATE: 1/3/07
PURGE METHOD: ☒ PUMP Qed. bladder ☐ BAILER			PH: 7.14 ✓ SU	CONDUCTIVITY: 1359 ✓ umhos/cm	
			ORP: -115 ✓ mv	DO: 0.11 ✓ mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 1.05 NTU		
DEPTH TO BOTTOM: < T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ~ ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.2 ✓ °C	OTHER:	
VOLUME REMOVED: ~8 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: colorless ODOR: None			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY: None			FILTRATE COLOR: Colorless	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP- 01		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1525	400 mL/min	7.17	1332	-85	0.54	6.71	10.2	—	INITIAL
1530		7.13	1357	-102	0.21	4.31	10.2	—	2L
1535		7.13	1358	-111	0.18	1.65	10.2	—	4L
1540		7.14	1358	-113	0.15	1.55	10.2	—	6L
1545		7.14	1359	-115	0.11	1.05	10.2	—	8L
		✓	✓	✓	✓		✓	—	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10mV ✓ D.O.: +/- 10% TURB: +/- 10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40ml	gl	A	☐ Y ☒ N	2	16oz	pl	H_2SO_4	☐ Y ☒ N
2	8oz	pl	↓	☐ Y ☒ N	2	↓	↓	HNO_3	☒ Y ☐ N
2	↓	↓	↓	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/3/07 & 1/4/07	AIRBILL NUMBER: 8596 8202 8972 20 8599 0493 6569
COC NUMBER: STL & CT Labs	SIGNATURE: Jonathan Keller	DATE SIGNED: 1/5/07

60'

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 1/3/07	BY: TH	DATE: 1-15-07

SAMPLE ID: MW06 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1330	DATE: 1/3/07	SAMPLE	TIME: 1430	DATE:
PURGE METHOD: ☒ PUMP Peristaltic Bladder ☐ BAILER			PH: 7.52 SU	CONDUCTIVITY: 645 umhos/cm	
DEPTH TO WATER: 3.89 T/ PVC (0.24)			ORP: -152 mv	DO: 0.28 mg/L	
DEPTH TO BOTTOM — T/ PVC			TURBIDITY: 11.2 NTU		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
VOLUME REMOVED 10 ☐ LITERS ☒ GALLONS			TEMPERATURE: 10.1 °C	OTHER:	
COLOR: Colorless ODOR: None			COLOR: Colorless	ODOR:	
TURBIDITY: None			FILTRATE (0.45 um) ☒ YES ☐ NO		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1335	~250 mL/min	7.53	636	-136	0.44	20.8	9.7	—	INITIAL
1340		7.54	638	-143	0.34	27.2	10.0	—	3.75
1345		7.53	640	-148	0.30	50.5	10.0	—	7.5
1350		7.52	642	-151	0.32	53.3	10.0	—	11.25
1355		7.51	643	-152	0.32	43.9	10.0	—	15
1400		7.52	643	-154	0.29	26.7	10.0	—	18.75
1405		7.52	644	-155	0.28	17.8	10.1	—	22.5
1410		7.51	644	-156	0.31	13.5	10.1	—	26.25
1415		7.51	645	-157	0.29	10.2	10.1	—	30
1420		7.52	645	-157	0.28	11.2	10.1	—	33.75
		✓	✓	✓	✓		✓		

sampled through flow cell then VOC flowing.

above TOC, flowing

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	gl	None	☐ Y ☒ N	1	~~500 mL~~ 1 L	pl	H_2SO_4	☐ Y ☒ N
1	~~500~~ 250 mL	g	A	☐ Y ☒ N	1	~~500 mL~~ 1 L	↓	HNO_3	☒ Y ☐ N
1	~~500~~ 250 mL	↓	A	☐ Y ☒ N					☐ Y ☐ N

160z

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/3/07 & 1/4/07	AIRBILL NUMBER: 8596 8312 8977
COC NUMBER: STL #CT	SIGNATURE: [signature]	DATE SIGNED: 1/15/07

VOCs

VOCs 8599 2993636

61

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/3/07	BY: JHL DATE: 1-15-07

SAMPLE ID: ~~MW07~~ MW07NK | WELL DIAMETER: ~~☒~~ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 950	DATE: 1/3/07
PURGE METHOD:	☒ PUMP Red Bladder ☐ BAILER	
DEPTH TO WATER: -6.03 T/ PVC + 0.24)		
DEPTH TO BOTTOM — T/ PVC		
WELL VOLUME: —	☐ LITERS ☐ GALLONS	
VOLUME REMOVED: ~9	☐ LITERS ☒ GALLONS	
COLOR: Colorless	ODOR: None	
TURBIDITY: None		
~~☒~~ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ~~☒~~ DRUM ☐ OTHER		

SAMPLE	TIME: 1100	DATE: 1/3/07
PH: 7.13 SU	CONDUCTIVITY: 1344 umhos/cm	
ORP: -101 mv	DO: 0.40 mg/L	
TURBIDITY: 0.95 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 10.5 °C	OTHER:	
COLOR: Colorless	ODOR: None	
FILTRATE (~~0.45 um~~) ☒ YES ☐ NO		
FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
~~QC SAMPLE: ☐ MS/MSD ☐ DUP.~~		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
955	675	7.09	1392	-72	0.92	2.74	9.7	N/A	INITIAL
1000	↓	7.08	1312	-76	0.81	2.81	10.1	↓	~3.5L
1005		7.09	1317	-83	0.67	2.49	10.1		7
1010		7.08	1321	-86	0.64	2.49	10.2		10.5
1015	↓	7.09	1328	-92	0.53	1.63	10.3		14
1020									
~~1035~~	Compressor			Quit					
1045	675	7.15	1338	-90	0.45	1.42	10.4		17.5
1050		7.14	1336	-95	0.45	1.81	10.4		21
1055		7.14	1342	-98	0.41	1.02	10.4		24.5
1100	↓	7.13	1344	-101	0.40	0.95	10.5	↓	28

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	VOC - Above	☐ Y ~~☒~~ N	1	1607	pl	H_2SO_4	☐ Y ~~☒~~ N
1	8oz	pl	A	☐ Y ~~☒~~ N	1	16oz	pl	HNO_3	~~☒~~ Y ☐ N
1	8oz	↓	↓	☐ Y ~~☒~~ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/3/07 & 1/4/07	AIRBILL NUMBER: 8546 8208 8977 & 8549 2936
COC NUMBER: STL & CT Labs	SIGNATURE: Thomas R Keller	DATE SIGNED: 1/15/07

TWS Portage

PAGE _____ OF _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/5/07	BY: TH DATE: 1-15-07

SAMPLE ID: CW07 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER Unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1125	DATE: 1/5/07	SAMPLE	TIME: 1155	DATE: 1/5/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 7.27 SU	CONDUCTIVITY: 723 umhos/cm	
			ORP: -146 mv	DO: 0.79 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 1.48 NTU		
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.6 °C	OTHER: —	
VOLUME REMOVED: ☐ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: —	FILTRATE ODOR: —	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE~~ ☐ ~~MS/MSD~~ ☐ ~~DUP.~~		
DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

Pumping @ ~700 gpm when arrived

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1130	7.30		721	-121	0.98	2.58	10.5	N/A	INITIAL
1135	7.29		722	-132	0.87	2.49	10.5		
1140	700 mL/min	7.28	724	-138	0.87	1.24	10.5		
1145	↓	7.28	720	-141	0.83	0.89	10.6		
1150		7.28	720	-144	0.82	1.53	10.6		
1155	↓	7.27	723	-146	0.79	1.48	10.6	↓	
		✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- D.O.: +/- TURB: +/- OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/3/07	AIRBILL NUMBER: 8592 7486 2480
COC NUMBER: CT Labs	SIGNATURE: /s/ Daniel R Hill	DATE SIGNED: 1/15/07

Rev. 3/2006

Chain of Custody

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Company:
Project Contact:
Telephone:
Project Name:
Project Number:
Project Location:
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company:
Address:
City/State/Zip:

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N								Total # of Containers	Preservation*	Lab ID #
							Fill in Spaces with Bottles per Test									
1/9/07	1105	G	CW07		GW	4								4	A	
↓	1040	↓	MW04		↓	4								4	↓	
			Trip Blank		W	1								1	B	

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	1/9/07		
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Chain of Custody

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CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Company: RMT, Inc
Project Contact: Ken Quinn
Telephone: 608-6625216
Project Name: Muskego
Project Number: 7133.02
Project Location: Muskego, WI
Sampled By: N Keller 608-219-1687

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To: Ken Quinn
Company: 744 Heartland Tr
Address:
City/State/Zip: Madison, WI 53717

Invoice To:
Company: Same as
Address: Above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Low Lv/VOC							Total # of Containers	Preservation*	Lab ID #
1/3/07	1545	G	MW05		GW	4									
↓	1420	↓	MW06		↓	↓									
↓	1100	↓	MW07		↓	↓									
1/4/07	925	↓	MW01		↓	↓									
↓	1030	↓	MW01A		↓	↓									
↓	820	↓	MW01B		↓	↓									
1/4/07	1600	↓	MW02		↓	↓									
1/4/07	1425	↓	MW03		↓	↓									
1/4/07	1310	↓	MW03A		↓	↓									
1/3/07	—	↓	Dup01		↓	↓									
1/4/07	—	↓	Dup02		↓	↓									
			Temp Blank												
			Trip Blank			2									

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel R Keller	1/4/06 645	To Fed Ex	
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature
Dave Keller	Dave Keller
Site Name: Muskego LF	Spec Request: AC
Site Location: Muskego, WI	Event Name: First Quarterly Sampling

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC							Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)																
				INDICATE CONTAINER BY USING KEY BELOW																
	MW01	1/4/07	935	GW	G		See	Analysis				Plan								All Metals Filtered
	MW01A		1030																	in Field
	MW01B		920																	
	MW02		1600																	
	MW03		1425																	
	MW03A		1310																	
	Dup02		—																	
	MW03 MS		1425																	Normal Sample
	MW03 MSD		1425																	Matrix Spike Dup

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Dave Keller	KM, Inc	1/4/07	1545	To Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Oil = Oil
- = Air
- = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier:
	Bill of Lading:

STL-8219 (1002)

Cust. # 175110

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature	Site Name	Spec Request	Site Location	Event Name
Nate Koller	Nathaniel R Koller	Muskego LF	AC	Muskego, WI	1st Quarterly Sampling

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)										
				INDICATE CONTAINER BY USING KEY BELOW										
	MW07	1/3/07	1100			See	Analysis							All metals samples were field filtered
	MW06	↓	1400											
	MW05		1545											
	Dup01		—											

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel R Koller	RMT, Inc	1/3/07	600	TO Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Ol = Oil
A = Air
O = —

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

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COMMENTS	Courier:
	Bill of Lading: 8596 8210 8977

Custody Seal # 175111

STL-8219 (1002)

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print): Nate Keller	Signature: Nathaniel Keller
Site Name: Muskego LF	Spec Request: AC
Site Location: Muskego, WI	Event Name: 1st Quarterly Sampling

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC							Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL) / INDICATE CONTAINER BY USING KEY BELOW																
	MW04	1/5/07	10 40			See Analysis Plan														

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel Keller	RMT, Inc.	1/5/07	15 00	To Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Ol = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate,
6. Cool to 4°
7. None

ef: 7133.02
lep

Date: 01/05/2007
Wgt 12.0 LBS
DV: 500.00
SHIPPING 0.00
SPECIAL 0.00
HANDLING 0.00
TOTAL: 0.00
Svcs: PRIORITY SATURDAY DSR
TRCK: 6750 8113 1206

Courier:

Bill of Lading: 6750 8113 1206

Cust. Signed & Dated Tape

STL-8219 (1002)

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 2/6/07	BY: THC DATE: 2/6/07

SAMPLE ID: MW 0317 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1015	DATE: 2/6/07	SAMPLE	TIME: 1115	DATE: 2/6/07
PURGE METHOD: [X] PUMP Bladder [ ] BAILER			PH: 8.35 SU	CONDUCTIVITY:	umhos/cm
			ORP: ~~207~~ -207 mv	DO: 0.38 mg/L	
DEPTH TO WATER: 14.11 T/ PVC			TURBIDITY: 321 NTU		
DEPTH TO BOTTOM — T/ PVC			[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 8.7 °C	OTHER: —	
VOLUME REMOVED: 7.1 [ ] LITERS [X] GALLONS			COLOR: lt grey	ODOR: None	
COLOR: V lt brown	ODOR: None		FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY: —			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

too much drawdown? pump 3x well vol?

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1015	600 mL/min	8.13	477	-96	5.19	157	10.0	14.11	INITIAL
1020	400 mL/min	8.15	494	-217	0.44	49.8	9.8	20.27	3L
1025	600 mL/min	8.22	480	-175	0.39	142	9.4	22.45	5L
1030	~~400 mL/min~~	8.25	476	-178	0.23	139	10.1	26.54	8L
1035	~~400 mL/min~~	8.24	475	-181	0.26	100	10.2	31.27	12L
1040	~~400 mL/min~~	8.26	473	-184	0.24	[illegible]	10.2	34.12	16L
1045	300	8.27	470	-203	0.22	318	10.3	37.35	19L
1050	↓	8.31	469	-208	0.26	324	9.7	37.95	20.5L
1055	250 mL/min	8.33	473	-204	0.29	328	9.9	37.95	22.0
1100	↓	8.34	469	-201	0.31	319	9.7	37.92	~23.5
1109	200	8.34	470	-199	0.30	326	9.5	37.81	~25

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- ~~0.1~~ 10% TURB: +/- ~~0.1~~ 10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VOA	A	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 2/6/07	AIRBILL NUMBER: 6750 8113 4146
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 2/6/07

1110	200	8.36	467	-212	0.37	315	18.8	37.90	26
1115	200	8.35	471	-207	0.38	5.21	18.7	37.96	27

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 2/6/07	BY: TH2 DATE: 2/6/07

SAMPLE ID: CW07 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER Unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1205	DATE: 2/6/07	SAMPLE	TIME: 1230	DATE: 2/6/07

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: ____ T/ PVC

DEPTH TO BOTTOM ____ T/ PVC

WELL VOLUME: ____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS

COLOR: Colorless ODOR: ____

TURBIDITY: ____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER Pump

PH: 7.33 SU | CONDUCTIVITY: 687 umhos/cm

ORP: -202 mv | DO: 0.16 mg/L

TURBIDITY: 1.10 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.1 °C | OTHER: ____

COLOR: Colorless | ODOR: None

~~FILTRATE (0.45 um) ☐ YES ☐ NO~~

FILTRATE COLOR: ____ | FILTRATE ODOR: ____

~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~

COMMENTS:

2 Cal

Cond 1.45/1500

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1205	500 mL/min	7.32	690	-162	0.24	6.22	10.2		INITIAL
1210		7.21	688	-185	0.17	4.38	11.6		2.5
1215		7.30	687	-193	0.17	1.10	11.0		5L
1220		7.32	687	-197	0.16	1.21	11.0		7.5L
1225	↓	7.35	687	-200	0.17	1.16	11.1		10L
1230	↓	7.33	687	-202	0.16	1.10	11.1		12.5
		✓	✓	✓	✓	✓	✓		

Pump running when arrived ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- ~~0.1~~ 10% TURB: +/- ~~0.1~~ 10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	gl	A	☐ Y ☒ ~~N~~					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/6/07	AIRBILL NUMBER: 675081341 4
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 2/6/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 2/27/07	BY: DATE:

SAMPLE ID: Davis | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1318	DATE: 2/27/07	SAMPLE	TIME: 1335	DATE: 2/27/07
PURGE METHOD: ☒ PUMP ~10 gpm ☐ BAILER			PH: — SU	CONDUCTIVITY: — umhos/cm	
			ORP: — mv	DO: — mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: — °C	OTHER: —	
VOLUME REMOVED: 170 ☐ LITERS ☒ GALLONS			COLOR: Orange SS	ODOR: Slt Sulfur	
COLOR: V lt brown / clear	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: Slight when on / None			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP		
DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 2/28/07	AIRBILL NUMBER: 675081136355
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 3/1/07

First time faucet on after winter, initial flush of water was lt brown + iron flakes but immediately cleared.

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 1/27/07	BY: DATE:

SAMPLE ID: Pies | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER Unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER Unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12 45	DATE: 1/27/07	SAMPLE	TIME: 13 00	DATE: 1/27/07

PURGE METHOD: ☒ PUMP ~10 gpm ☐ BAILER

DEPTH TO WATER: ~ T/ PVC

DEPTH TO BOTTOM ~ T/ PVC

WELL VOLUME: ~ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 150 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR: ~~None~~ Slt Sulfur

TURBIDITY: ~

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER

PH: ~ SU CONDUCTIVITY: ~ umhos/cm

ORP: ~ mv DO: ~ mg/L

TURBIDITY: ~ NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: ~ °C OTHER: ~

COLOR: Colorless ODOR: Slt Sulfur

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: ~ FILTRATE ODOR: ~

QC SAMPLE: ~~☐ MS/MSD~~ ☐ DUP: ~

COMMENTS:

Water Flushed into pond

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	VI	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 1/28/07	AIRBILL NUMBER: 6730 8115 6355
COC NUMBER: CT Labs	SIGNATURE: Nathaniel N Keller	DATE SIGNED: 1/1/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 3/8/07	BY:	DATE:

SAMPLE ID: MW03A — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: ~~1048~~ 1116	DATE: 3/8/07	SAMPLE	TIME: 1248	DATE: 3/8/07
PURGE METHOD: [X] PUMP Red Bladder [ ] BAILER			PH: 8.66 SU	CONDUCTIVITY: — umhos/cm	
			ORP: -163 mv	DO: 1.21 mg/L	
DEPTH TO WATER: 14.30 T/ PVC			TURBIDITY: 56.2 NTU		
DEPTH TO BOTTOM NM T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.4 °C	OTHER: —	
VOLUME REMOVED: [ ] LITERS [ ] GALLONS			COLOR: V. lt brown	ODOR: V. Slt Sulfur	
COLOR: V lt brown	ODOR: Slt Sulfur		FILTRATE (0.45 um) [ ] YES [X] NO		
TURBIDITY: —			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE: [ ] MS/MSD [ ] DUP:~~		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			~~COMMENTS:~~		

	TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1.5L	1118	~~800ml/min~~	7.89		-17	6.02	78.6	10.8	14.30	INITIAL
1.0L	1123	~~1.5L/min~~	8.30		-38	1.06	43.0	10.6	24.82	7.5L
	1128	1L	8.31		-38	2.06	34.8	10.6	30.02	12.5L
	1133	250L	8.41		-49	1.18	49.7	10.6	34.45	17.5L
	1138	175	8.45		-82	1.22	216	10.4	37.30	18.5L
1.75 / 5 / 375	1143	↓	8.48	Network	-82	1.36	234	10.3	37.19	~19.25
	1148	↓	8.49		-83	1.19	257	10.4	37.12	~20L
	1153	↓	8.49		-92	1.22	329	10.6	37.04	~20.75
	1158	↓	8.50		-105	1.33	418	10.6	37.02	~21.75
	1203	↓	8.55		-123	1.33	394	10.6	37.00	~22.5
	1208	↓	8.56		-131	1.25	311	10.5	37.00	~23.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	sl	A	[ ] Y [X] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 3/8/07	AIRBILL NUMBER: 675081137 1SC
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 3/13/07

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 3/9/07	BY: DATE:

SAMPLE ID: MW03A

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12 13	175	8.60		-138	1.25	200	10.5	37.02	24.25
12 18	150	8.60		-146	1.22	158	10.6	37.10	25.0
12 23	↓	8.61		-151	1.24	122	10.5	37.07	25.75
12 28	↓	8.63		-153	1.21	97.0	10.5	37.10	26.5
12 33	↓	8.64		-157	1.28	70.5	10.4	37.09	27.25
12 38	↓	8.65		-159	1.22	61.0	10.3	37.10	28.0
12 43		8.66		-161	1.19	54.8	10.3	37.12	28.75
12 48		8.66		-163	1.21	50.2	10.4	37.14	29.5
12 53									

SIGNATURE: Nathaniel R Keller DATE SIGNED: 3/13/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 3/8/07	BY: DATE:

SAMPLE ID: CW07 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

Pump on @ ~700 GPM

PURGING	TIME: 1335	DATE: 3/8/07	SAMPLE	TIME: 1405	DATE: 3/8/07
PURGE METHOD: ☒ PUMP Municipal well ☐ BAILER			PH: 7.34 SU	CONDUCTIVITY: — umhos/cm	
			ORP: -134 mv	DO: 0.95 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 1 NTU		
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.5 °C	OTHER:	
VOLUME REMOVED: — ☐ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: —			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER Dark			COMMENTS: None		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV) J	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1340	500mL	7.40		-106	1.67	2.95	10.6	—	INITIAL
1345	↓	7.39		-117	1.53	0.84	10.5		2.5L
1350	↓	7.34		-122	1.28	1	10.5		5L
1355	↓	7.34		-127	0.91	1	10.5		7.5
1400	↓	7.34		-131	0.96	1	10.5		10L
1405	↓	7.34		-134 ↓	0.95	1	10.5		12.5
1410									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 0.1 TURB: +/- 0.1 OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	91	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 3/8/07	AIRBILL NUMBER: 6750 8137 156
COC NUMBER: CT Labs	SIGNATURE: Nathaniel Kilb	DATE SIGNED: 3/13/07

WATER LEVEL DATA

PROJECT NAME: MSGRG	DATE: 4/9/07
PROJECT NUMBER: 7133.02	AUTHOR: N. Keller

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW03A	912	821.69	13.08+0.00	NM	NA	808.61
MW03	915	821.64	11.14			810.50
MW01B	922	830.53	19.77			810.76
MW01	925	830.66	20.04			810.62
MW01A	929	829.52	18.93			810.59
MW02	937	856.94	46.13			810.81
MW04A	947	829.10	22.23			806.87
MW04	950	829.39	13.93			810.46
MW06	1033	802.10	-(4.94+0.24)	-5.18		807.28
MW05		NM	Packer in way			—
MW07	1100	799.21	-(7.00+0.24)	-7.24		806.45

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

Nathaniel A Keller 4/13/07
SIGNED DATE

CHECKED 4-17-07
CHECKED DATE

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/9/07	BY: THL	DATE: 4-17-07

SAMPLE ID: MW01 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 3:40	DATE: 4/9/07	SAMPLE	TIME: 16:05	DATE: 4/9/07

PURGE METHOD: [X] PUMP Ded. Bladder ✓ [ ] BAILER

DEPTH TO WATER: 20.05 T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 11.25 [ ] LITERS [ ] GALLONS

COLOR: Colorless

TURBIDITY: None

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.22 ✓ SU — CONDUCTIVITY: 1528 umhos/cm

ORP: -94 ✓ mv — DO: 0.12 mg/L ✓

TURBIDITY: 2.81 ✓ NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 10.9 ✓ °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: None — ~~FILTRATE ODOR~~: None

QC SAMPLE: [ ] MS/MSD [X] DUP 01

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:45	450	7.20	1506	-57	0.38	2.36	11.1	20.05	INITIAL 2.25
15:50	↓	7.20	1517	-71	0.20	2.25	11.0	20.05	4.5
15:55		7.21	1524	-86	0.15	2.88	11.0	20.05	6.75
16:00		7.22	1525	-92	0.11	2.65	10.9	20.05	9.00
16:05	↓	7.22	1528	-94	0.12	2.81	10.9	↓	11.25
16:10			✓	✓			✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40ml	gl	A	[ ] Y [X] N	2	16oz	pl	B	[X] Y [ ] N
2	16oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N
4	8oz	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex — DATE SHIPPED: 4/9 & 4/10/07 — AIRBILL NUMBER: 8603145145654 8646702 1800

COC NUMBER: STL & QLabs — SIGNATURE: [signature] — DATE SIGNED: 4/13/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/10/07	BY: JH	DATE: 4-17-07

SAMPLE ID: MW01A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 10 15	DATE: 4/10/07	SAMPLE	TIME: 1045	DATE: 4/10/07
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 7.13 SU	CONDUCTIVITY: 1407 umhos/cm	
			ORP: -140 mv	DO: 0.17 mg/L	
DEPTH TO WATER: 18.95 T/ PVC			TURBIDITY: 0.68 NTU turbidity decreasing at sample time		
DEPTH TO BOTTOM: ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.0 °C	OTHER:	
VOLUME REMOVED: ~~12~~ ~~18~~ ☒ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: None	FILTRATE ODOR: None	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP:~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	
1020	400	7.15	1402	-104	0.41	1.18	11.0	18.95	INITIAL	2L
1025	↓	7.13	1408	-120	0.21	2.05	11.0	18.95	2L	
1030		7.13	1410	-126	0.19	1.06	11.1	18.95	4L	
1035		7.14	1408	-131	0.17	1.29	11.0	18.95	6L	
1040		7.14	1405	-136	0.18	0.97	10.9	18.95	8L	
1045	↓	7.13	1407	-140	0.17	0.68	11.0	18.95	10L	+2L
1050		✓	✓	✓	✓	↓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N	1	1607	pl	B	☒ Y ☐ N
1	1607	pl	C	☐ Y ☒ N					☐ Y ☐ N
2	807	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/10/07	AIRBILL NUMBER: 8608 1451 4550	8614 6702 1796
COC NUMBER: STL & CT Labs	SIGNATURE: Matthew Keller	DATE SIGNED: 4/13/07	

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/9/07	BY: JH	DATE 4-11-07

SAMPLE ID: MW01B — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1440	DATE: 4/9/07	SAMPLE	TIME: 1505	DATE: 4/9/07
PURGE METHOD: [X] PUMP (Ted bladder?) [ ] BAILER			PH: 8.21 SU	CONDUCTIVITY: 276 umhos/cm	
			ORP: -185 mv	DO: 0.6 mg/L	
DEPTH TO WATER: ~~20.61~~ T/ PVC 20.61 +0.00			TURBIDITY: 0.92 NTU		
DEPTH TO BOTTOM: — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.8 °C	OTHER:	
VOLUME REMOVED: 10L [ ] LITERS [ ] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [X] YES [X] NO		
TURBIDITY:			FILTRATE COLOR: None	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP-		
DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1445	400 mL/min	8.05	276	-181	0.33	3.41	10.7	20.81	INITIAL
1450		8.18	273	-189	0.17	1.82	10.8	20.81	4
1455		8.20	275	-183	0.15	0.72	10.7	20.72	6
1500		8.21	276	-183	0.13	0.71	10.7	20.74	8
1505		8.21	276	-185	0.12	0.92	10.8	20.68	10
~~T5 10~~		✓	✓	✓	✓	✓	✓	✓	
~~T5 15~~									

2L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	[ ] Y [X] N	1	16oz	pl	B	[X] Y [ ] N
1	16oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N
2	8oz	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex — DATE SHIPPED: 4/9/07 to 4/10/07 — AIRBILL NUMBER: 8608 1451 4565 to 8646 7220 1800

COC NUMBER: STL-CT Labs — SIGNATURE: [signature] — DATE SIGNED: 4/13/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 4/10/07	BY: TH DATE: 4-17-07

SAMPLE ID: MW02 | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 905	DATE: 4/10/07
PURGE METHOD:	☒ PUMP Ded Disp Tubing? ☐ BAILER	
DEPTH TO WATER: 46.08 T/ PVC		
DEPTH TO BOTTOM: — T/ PVC		
WELL VOLUME: —	☐ LITERS ☐ GALLONS	
VOLUME REMOVED: 11.25	☒ LITERS ☐ GALLONS	
COLOR: Colorless		
TURBIDITY:		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER		

SAMPLE	TIME: 930	DATE: 4/10/07
PH: 7.04 SU	CONDUCTIVITY: 454 umhos/cm	
ORP: -63 mv	DO: 0.18 mg/L	
TURBIDITY: 1.18 NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 10.7 °C	OTHER:	
COLOR: Colorless	ODOR: None	
FILTRATE (0.45 um) ☒ YES ☐ NO		
FILTRATE COLOR: None	FILTRATE ODOR: None	
QC SAMPLE: ☐ ~~MS/MSD~~ ☐ ~~DUP~~		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
910	450	7.22	953	-41	0.87	2.56	10.7	46.09	INITIAL 2.25
915		7.09	955	-58	0.24	1.15	10.5	46.10	4.5
920		7.07	953	-61	0.19	1.15	10.6	46.09	6.75
925		7.06	950	-62	0.17	1.27	10.7	46.09	9.00
930	↓	7.04	454	-63	0.18	1.18	10.7	46.09	11.25
935		✓	✓	✓	✓	✓	✓	✓	
940									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N	1	160z	pl	B	☒ Y ☐ N
1	160z	pl	C	☐ Y ☒ N					☐ Y ☐ N
2	80z	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/10/07	AIRBILL NUMBER: 860814514565
COC NUMBER: STL CT Labs	SIGNATURE:	DATE SIGNED: 4/16/07

86H6902 1796

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/10/07	BY: TH	DATE: 4-17-07

SAMPLE ID: MW03 — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 7:50	DATE: 4/10/07	SAMPLE	TIME: 8:15	DATE:

PURGE METHOD: [X] PUMP Red Bladder [ ] BAILER

DEPTH TO WATER: 11.14 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 9 [X] LITERS [ ] GALLONS

COLOR: colorless

TURBIDITY: —

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.15 ✓ SU — CONDUCTIVITY: 1905 ✓ umhos/cm

ORP: -88 ✓ mv — DO: 0.11 ✓ mg/L

TURBIDITY: 0.65 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 10.3 ✓ °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: None — FILTRATE ODOR: None

~~QC SAMPLE:~~ [ ] MS/MSD [ ] DUP

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
7:55	300	7.13	1915	-28	0.73	5.13	9.9	11.14	INITIAL 1.5
8:00	400	7.17	1906	-66	0.23	1.80	10.1	11.14	~~1.5~~ 3.0
8:05	↓	7.15	1910	-80	0.12	1.27	10.3	11.14	5 L
8:10		7.15	1909	-86	0.10	0.69	10.3	11.14	7 L
8:15	↓	7.15	1905	-88	0.11	0.65	10.3	11.14	9 L
8:30		✓	✓	✓	✓	✓	✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40mL	gl	A	[ ] Y [X] N	1	16oz	pl	B	[X] Y [ ] N
1	16oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N
2	8oz	W	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX	DATE SHIPPED: 4/10/07	AIRBILL NUMBER: 8608145145
COC NUMBER: JTL PCT Laboratories	SIGNATURE: [signature]	DATE SIGNED: 4/13/07

86146722 1796

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 4/9/07	BY: THR DATE: 4-17-07

SAMPLE ID: MW03A | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1155	DATE: 4/8/07	SAMPLE	TIME: 1250	DATE: 4/9/07
PURGE METHOD: ☒ PUMP Red Bladder ☐ BAILER			PH: 8.46 SU	CONDUCTIVITY: 397 umhos/cm	
			ORP: -163 mv	DO: 0.19 mg/L	
DEPTH TO WATER: 13.14 T/ PVC			TURBIDITY: 956 NTU		
DEPTH TO BOTTOM: NM T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 9.5 °C	OTHER:	
VOLUME REMOVED: ~21 ☒ LITERS ☐ GALLONS			COLOR: V. lt brown	ODOR: None	
COLOR: V. lt brown / colorless			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY: slt sediment			FILTRATE COLOR: None	FILTRATE ODOR: None	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1156	1 L/min	8.34	413	-133	0.21	54.7	10.5	18.80	INITIAL
1205		8.35	410	-85	0.10	24.0	10.4	25.95	9L
1210	600 mL/min	8.36	407	-93	0.11	23.4	10.4	31.40	12L
1215		8.35	407	-116	0.10	58.4	10.4	35.75	15L
1220	400 mL/min	8.37	406	-125	0.30	96.7	10.3	37.70	17L
1225	140 mL/min	8.37	405	-130	0.20	96.4	9.6	38.07	17.7
~~1240~~ 1230		8.41	401	-146	0.18	132	9.6	38.23	18.4
1235	100 mL/min	8.42	401	-148	0.22	126	9.7	38.15	18.9
1240		8.44	398	-154	0.20	123	9.6	38.12	19.4
1245		8.45	398	-159	0.21	112	9.5	38.06	19.9
1250		8.46	397	-163	0.19	95.6	9.5	38.05	20.4

≥1.0 ft drawdown

Is this vol = 3 or 4 x well vol?

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 ⊗ TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N	1	1L	pl	B	☒ Y ☐ N
1	C60ml	pl	C	☐ Y ☒ N					☐ Y ☐ N
2	80z	pl	A	☐ Y ☒ N					☐ Y ☐ N

~15% of purge volume is from drawdown

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/9/07 & 4/10/07	AIRBILL NUMBER: 8608 1495 4565
COC NUMBER: CT-STL	SIGNATURE: [signature]	DATE SIGNED: 4/13/07

should be < 10%

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/11/07	BY: JH	DATE: 4-17-07

SAMPLE ID: MW104 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

meter out of range (hi) at end of day Check

PURGING	TIME: 12 35	DATE: 4/11/07	SAMPLE	TIME:	DATE:
PURGE METHOD: [X] PUMP Peristaltic [ ] BAILER			PH: 7.07 SU	CONDUCTIVITY: 1513 umhos/cm	
			ORP: -49 J mv	DO: 0.17 mg/L	
DEPTH TO WATER: 18.90 T/ PVC			TURBIDITY: 1.88 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: ____ [ ] LITERS [ ] GALLONS			TEMPERATURE: 9.9 °C	OTHER:	
VOLUME REMOVED: 11.25 [ ] LITERS [ ] GALLONS			COLOR: None	ODOR: None	
COLOR: colorless			FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR: None	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD [ ] DUP:		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1240	450	7.08	1514	-19	0.62	3.52	10.1	18.90	INITIAL 2.25
1245		7.06	1514	-40	0.24	0.74	10.0	18.90	4.5
1250		7.07	1515	-43	0.19	0.48	9.9	18.90	6.75
1255		7.07	1514	-47	0.17	1.18	9.7	18.90	9
1300		7.07	1513	-49	0.17	1.88	9.9	18.90	11.25
1300	↓	✓	✓	✓	✓	✓	✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	[ ] Y [X] N	1	1602	pl	B	[X] Y [ ] N
	16 oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N
2	8oz	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx	DATE SHIPPED: 4/11/07	AIRBILL NUMBER: 8606 3933 1505
COC NUMBER: CT-0571	SIGNATURE: [signature]	DATE SIGNED: 4/13/07

8606 3933 9517

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 4/10/07	BY: TH2 DATE: 4-17-07

SAMPLE ID: MW05 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 258	DATE: 4/10/07	SAMPLE	TIME: 1525	DATE: 4/10/07

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 10 [X] LITERS [ ] GALLONS

COLOR: Colorless

TURBIDITY: —

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.12 SU | CONDUCTIVITY: 1342 umhos/cm

ORP: -99 mv | DO: 0.13 mg/L

TURBIDITY: 1.10 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 9.7 °C | OTHER:

COLOR: Colorless | ODOR: None

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: Colorless | FILTRATE ODOR: None

~~QC SAMPLE: [ ] MS/MSD [ ] DUP:~~

~~COMMENTS:~~

turbidity decreasing at sample time

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
300	400	7.42	1313	74	1.10	2.14	9.6	"	INITIAL
305		7.10	1333	-73	0.26	3.12	9.7		2L
310		7.10	1337	-84	0.17	2.91	9.9		4L
315		7.11	1339	-92	0.14	2.00	9.8		6L
320		7.12	1340	-96	0.13	1.98	9.8		8L
325		7.12	1342	-99	0.13	1.10	9.7		10L
330		✓	✓	✓	✓		✓		
335									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	pl	A	[ ] Y [X] N	1	8oz	pl	A	[ ] Y [X] N
1	16oz	pl	C	[ ] Y [X] N	1	pl.	16oz	B	[X] Y [ ] N
1	8oz	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex | DATE SHIPPED: 4/10/07 | AIRBILL NUMBER: 860814514965 0

COC NUMBER: STL DCT Labs | SIGNATURE: Nathaniel Keller | DATE SIGNED: 4/13/07

8614/6722
1796

84

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 4/10/07	BY: JH2 DATE: 4-17-07

SAMPLE ID: MW06 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1370	DATE: 4/10/07	SAMPLE	TIME: 1350	DATE: 4/10/07
PURGE METHOD: [X] PUMP Ded. Bladder [ ] BAILER			PH: 7.50 SU	CONDUCTIVITY: 648 umhos/cm	
			ORP: -127 mv	DO: 0.22 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 0.59 NTU		
DEPTH TO BOTTOM: — T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 10.0 °C	OTHER:	
VOLUME REMOVED: ____ [ ] LITERS [ ] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY: ____			FILTRATE COLOR: None	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			~~QC SAMPLE:~~ [ ] ~~MS/MSD~~ [ ] DUP.		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS:		

turbidity decreasing at sample time

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1330	600 mL/min	7.50	647	-106	0.33	2.04	9.9		INITIAL
~~1340~~ 1335		7.41	647	-119	0.24	0.90	9.7		3.25
~~1345~~ 1340		7.49	647	-122	0.23	1.25	9.9		6.5
~~1350~~ 1345		7.50	648	-124	0.22	1.20	9.9		9.75
~~1355~~ 1350		7.50	648	-127	0.22	0.59	10.0		13.0
1400		✓	✓	✓	✓		✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	pl	A	[ ] Y [X] N	1	1607	pl	B	[X] Y [X] N
1	1607	pl	C	[ ] Y [X] N					[ ] Y [ ] N
2	807	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/10/07	AIRBILL NUMBER: 860814514565 0
COC NUMBER: STL CT Labs	SIGNATURE: Catherine K. Keller	DATE SIGNED: 4/13/07

86146722
1796

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/11/07	BY: JTL	DATE: 4/17/07

SAMPLE ID: MW07 | WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1020	DATE: 4/11/07	SAMPLE	TIME: 1045	DATE: 4/11/07
PURGE METHOD: [X] PUMP Ded			PH: 7.34 SU	CONDUCTIVITY: 1379 umhos/cm	
[ ] BAILER			ORP: -85 (J) mv	DO: 0.14 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 1.05 NTU		
DEPTH TO BOTTOM: N/M T/ PVC			[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME: — [ ] LITERS [ ] GALLONS			TEMPERATURE: 9.8 °C	OTHER:	
VOLUME REMOVED: ~20 [X] LITERS [ ] GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless			FILTRATE (0.45 um) [X] YES [ ] NO		
TURBIDITY:			FILTRATE COLOR: None	FILTRATE ODOR: None	
[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [X] MS/MSD [X] DUP @2		
DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER			COMMENTS: MS MW07 / MSD MW07		

meter out of range at end of day check

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1005	400mL/min	7.28	1369	-55	0.17	3.31	9.6		INITIAL 3.5
1030		7.30	1376	-70	0.18	2.12	9.7		7
1035		7.32	1378	-80	0.16	2.02	9.7		10.5
1040		7.34	1376	-82	0.15	1.22	9.8		14
1045		7.34	1379	-85	0.14	1.05	9.8		17.5
1050	↓	✓	✓	✓	✓	✓	✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
16	40ml	sl	A	[ ] Y [X] N	4	16oz	pl	B	[X] Y [ ] N
4	16oz	pl	C	[ ] Y [X] N					[ ] Y [ ] N
8	8oz	↓	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/11/07	AIRBILL NUMBER: 8606 3933 1905 0
COC NUMBER: STL-CT Labs	SIGNATURE: [signature]	DATE SIGNED: 4/13/07

8606 3933 9517

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.02	BY: N. Keller	DATE: 4/10/07	BY: THL	DATE: 4-17-07

SAMPLE ID: CW07 — WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER 7.28

PURGING	TIME: 11 30	DATE: 4/10/07	SAMPLE	TIME: 11 55	DATE: 4/10/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: — ☐ LITERS ☐ GALLONS

COLOR: Colorless

TURBIDITY:

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER Drain

PH: 7.28 SU — CONDUCTIVITY: 712 umhos/cm

ORP: -99 mv — DO: 0.05 mg/L

TURBIDITY: 0.48 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.6 °C — OTHER:

COLOR: Colorless — ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~

~~COMMENTS:~~

Pump @ 700GPM

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11 35	500ml/min	7.29	711	-80	0.09	0.49	10.6		INITIAL
11 40	↓	7.29	712	-88	0.07	0.61	10.6		2.5
11 45		7.28	712	-93	0.06	0.49	10.6		5
11 50		7.28	712	-97	0.05	0.42	10.6		7.5
11 55		7.28	712	-99 NK	0.05	0.48	10.6		10
		✓	✓	-99	✓	✓	✓		
				✓					

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40ml	gl	A	☐ Y ☒ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 4/10/07	AIRBILL NUMBER: 8608145/4565
COC NUMBER: CT Labs	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 4/13/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.02	BY: N. Keller DATE: 4/11/07	BY: DATE:

SAMPLE ID: FB01 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☒ OTHER NA

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☒ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP ☐ BAILER

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM: _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: _____

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 1505	DATE: 4/11/07

PH: 7.10 SU CONDUCTIVITY: 11 umhos/cm

ORP: 198.5 mv DO: 10.95 mg/L

TURBIDITY: — NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 5.0 °C OTHER:

COLOR: colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~

COMMENTS: Field Blank

meter out of range at end of day check.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

how did you collect?

~~DI water poured over bladder pump~~

describe method.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 0.1/10% TURB: +/- 0.1/10% OR </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1607	pl	C	☐ Y ☒ N					☐ Y ☐ N
2	807	pl	A	☐ Y ☒ N					☐ Y ☐ N
1	1607	V	B	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 4/11/07 AIRBILL NUMBER: 8606393 7505

COC NUMBER: STL SIGNATURE: [signature] DATE SIGNED: 4/13/07

Rev. 3/2003

Chain of Custody

Page _____ of _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Tel. Fx 608-356-2766
www.ctlaboratories.com

Company Name: RMT, Inc
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.02
Project Location: Muskego, WI
Sampled By: Nate Fuller
608-219-1687

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Place Header Sticker Here:
Lab Use Only

Ice Present Yes No
Temperature _____
Initials _____
Date _____ Time _____
Cooler # _____

Mail Report To: Ken Quinn
Company: RMT, Inc
Address: 744 Heartland Tr
City/State/Zip: Madison, WI

Invoice To:
Company: Game
Address:
City/State/Zip:

PO No.

Contract No.

Turnaround Time
Normal RUSH* Date Needed _____
*Notify Lab prior to sending in RUSH
Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%
Surcharges subject to change without notice.

Landfill License Number _____

Client Special Instructions: All GW Samples Unpreserved

Collection Date	Collection Time	Field Screen	Field ID	Grab/ Comp	Sample ID Description	Filt'd Y/N	WDNR Well ID #	**Matrix:	3 40 VOC Low Lv							Total No of Containers	Total No of Cont. Rec'd	Preservation*	Lab ID #
							Fill in Spaces with Bottles per Test													
4/9/07	1250	N		G	MW03A	N		GW	4							4		A	
4/10/07	815				MW03														
4/9/07	1605				MW01														
4/10/07	1045				MW01A														
4/9/07	1505				MW01B														
4/10/07	930				MW02														
4/10/07	1525				MW05														
4/10/07	1350				MW06														
4/9/07	—				Dup01														
4/10/07	1155				Trip Blank			W	2							2		B	

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel Fuller	4/10/07 1800	FO	
Received by:	**Date/Time**	**Received by:**	**Date/Time**
To FedEx			

**Matrix
S–Soil A–Air Slg–Sludge M–Misc Waste
GW–Groundwater SW–Surface Water
WW–Wastewater DW–Drinking Water

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Air Bill # 860814514565 Signed & Date Custody

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Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT, Inc
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: Muskego
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Nate Keller 608-219-4687

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Mail Report To: Ken Quinn
Company: RMT, Inc
Address: 744 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address: Same As Above
City/State/Zip:

PO No.

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

Turnaround Time
Normal RUSH*
Date Needed _____
*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Client Special Instructions: All vials unpreserved

Landfill License Number:

ANALYSES REQUESTED

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	Filtered? Y/N	**Matrix:	Low Lvl VOC 8260								Total # of Containers	Preservation*	Lab ID #
			Fill in Spaces with Bottles per Test													
4/1/07	1045	G	MW07	N	GW	4									A	
	↓		MSMW07			4										
			MSDMW07			4										
	1300		MW04			4										
★	—	↓	~~MW~~ Dup02	↓	↓	4									↓	
			Trip Blank		W	1									B	

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Nathaniel Rich	4/1/07 1730		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
To Fed EX			

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Airbill # 8606 3933 9517 Custody signed & dated

90

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print): Nate Keller	Signature: [signature]
Site Name: Muskego LF	Spec Request: AC
Site Location: Muskego, WI	Event Name: Second Quarter

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC							Additional Analysis/Remarks
	MW01	4/9/07	16:05	W	G	See			Analysis											
	MW01B	↓	15:05	↓	↓															
	MW03A	↓	12:50	↓	↓															
	Dup01	↓	—	↓	↓															

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	CMT, Inc	4/9/07	18:30	TO Fed	EX		

[redacted]

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Ol = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS: C-st. # 183867

Courier: Fed EX

Bill of Lading: 8614 67221800

STL-8219 (1002)

SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature:
Nate Killer	Nathaniel P Killer
Site Name: Muskego LF	**Spec Request:** AC
Site Location: Muskego, WI	**Event Name:** Second Quarter

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)										
				INDICATE CONTAINER BY USING KEY BELOW										
	MW03	4/10/07	815			See Analysis Plan								Metals are Filtered
	MW02		930											
	MW05		1525											
	MW06		1350											
	MW01A		1045											

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel P Killer	PMT Inc.	4/10/07	1800	TO Fed Ex			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Ol = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier: Fed Ex
	Bill of Lading: 8614 6723 1796

STL-8219 (1002)

Cust. Seal # 183866

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SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print): Nate Keller	Signature: Nathaniel R Keller
Site Name: Muskego LF	Spec Request: AC
Site Location: Muskego, WI	Event Name: Second Quarter

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

STL Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC							Additional Analysis/Remarks
	MW07	4/11/07	10^{45}				See Analysis Plan													
	MSMW07	↓	↓															← Matrix		Spike
	MSDMW07	↓	↓															← Matrix		All Metals
	MW04	↓	13^{00}															Spike		Filtered
	Dup 02	↓	—															Dup		
	FB01	↓	15^{05}																	

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel R Keller	RMT, Inc	4/11/07	17^{30}	To Fed Ex			

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
SI = Sludge
MS = Miscellaneous Solids
OI = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Courier: Fed Ex

Bill of Lading: 8606393315[illegible]

STL-8219 (1002)

Custody # 183865

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6-4-07	BY: JAR DATE: 6/14/07

SAMPLE ID: E-137A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1538	DATE: 6/4/07

PURGE METHOD: ☒ PUMP ☐ BAILER

DEPTH TO WATER: 23.05 T/ PVC

DEPTH TO BOTTOM NR T/ PVC

WELL VOLUME: ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ☐ LITERS ☐ GALLONS

COLOR: lt. brown ODOR: none

TURBIDITY: ☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1615 ✓	DATE: 6/4/07

PH: 6.97 ✓ SU CONDUCTIVITY: 1381 ✓ umhos/cm

ORP: -30 ✓ mv DO: 0.50 ✓ mg/L

TURBIDITY: 165 NTU ✓

☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY

TEMPERATURE: 12.1 °C OTHER:

COLOR: lt. brown ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
								23.05	INITIAL ✓
1540								23.07	0.4
1545	200	6.98	1353	-23	0.82		12.4	23.07	1.4
1550	200	6.97	1357	-21	0.71		12.3		2.5
1555	200	6.97	1365	-30	0.65		12.2	23.07	
1600	200	6.97	1374	-30	0.59		12.1		4.5
1605	200	6.97	1380	-29	0.54		12.2		
1610	200	6.97	1381	-30	0.50	165	12.1	23.09	6.5 L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	16oz	PL	C	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/14/07	AIRBILL NUMBER: 8616560061 60
COC NUMBER: STL #1	SIGNATURE: [signature]	DATE SIGNED: 6/11/07 ✓

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TR DATE: 6-4-07	BY: TJR DATE: 8/1/07

SAMPLE ID: MW-13 (TR) 3A | WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 2:05 p	DATE: 6-4-07
PURGE METHOD: ☑ PUMP ded. ☐ BAILER		
DEPTH TO WATER: 19.42 T/ ~~PVC~~ Casing		
DEPTH TO BOTTOM NR T/ PVC		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: ____ ☐ LITERS ☐ GALLONS		
COLOR: light grey ODOR: None		
TURBIDITY: ____		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER		

SAMPLE	TIME: 2:50 p	DATE: 6-4-07
PH: 8.37 SU	CONDUCTIVITY: 410 umhos/cm	
ORP: -84 mv	DO: 14.51 mg/L	
TURBIDITY: 602 NTU		
☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
TEMPERATURE: 13 °C	OTHER: ____	
COLOR: None	ODOR: None	
FILTRATE (0.45 um) ☒ YES ☐ NO		
FILTRATE COLOR: clear	FILTRATE ODOR: none	
QC SAMPLE: ☐ MS/MSD ☐ DUP- ____		
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
2:05								19.42	INITIAL
2:10	200	8.28	417	-51	6.82		11.4	21.66	
2:15	200	8.31	416	-21	4.65		11.4	22.58	
2:20	200	8.33	414	-17	8.65		11.2	23.57	
2:25	200	8.36	413	-48	12.74		12.8	23.53	
2:30	200	8.37	412	-73	14.99		13.1	23.37	
2:35	200	8.36	412	-80	15.89		12.9	2331	
2:40	200	8.36	411	-82	11.90		12.9	23.19	
2:45	200	8.37	410	-84	14.51	602	13.0		2.5 gal

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1 liter	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	1 liter	PL	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex DATE SHIPPED: 6/4/07 AIRBILL NUMBER: 861656006160

COC NUMBER: STL #1 SIGNATURE: Tamara Rundell DATE SIGNED: 6-4-07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: MR DATE: 6-4-07	BY: [illegible] DATE: 8/1/07

SAMPLE ID: E-137B ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 3:45 p	DATE: 6-4-07

PURGE METHOD: ☒ PUMP ded. ☐ BAILER

DEPTH TO WATER: 23.86 T/ ~~PVC~~ Casing ✓

DEPTH TO BOTTOM NR T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: light Tan ODOR: None

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ ~~OTHER~~

SAMPLE	TIME: 4:20 ✓	DATE: 6-4-07

PH: 6.95 ✓ SU CONDUCTIVITY: 1432 umhos/cm ✓

ORP: -116 ✓ mv DO: 0.50 mg/L

TURBIDITY: 38.2 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.7 ✓ °C OTHER: _____

COLOR: None ODOR: None

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
3:45								23.86	INITIAL ✓
3:55	200	6.92	1426	-114	0.54		12.7	23.86	2L
4:00	200	6.92	1429	-121	0.53		12.7	23.86	3L
4:05	200	6.91	1431	-125	0.50		12.6	23.86	4L
4:10	200	6.93	1432	-115	0.51		12.5	23.87	5L
4:15	200	6.95	1432	-116	0.50	38.2	12.7	23.87	6L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16 oz	P	B	☒ Y ☐ N	1	8oz	P	A	☐ Y ☒ N
1	16 oz	P	C	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	P	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex DATE SHIPPED: 6/4/07 AIRBILL NUMBER: 8616 5600 6160

COC NUMBER: STL#1 SIGNATURE: [signature] DATE SIGNED: 6-4-07 ✓

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRG DATE: 6/4/07	BY: JAH DATE: 8/11/07

SAMPLE ID: MW-8A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1115	DATE: 6/4/07

PURGE METHOD: ☒ PUMP dedicated ☐ BAILER

DEPTH TO WATER: 27.27 T/ PVC ✓

DEPTH TO BOTTOM NR T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: Brown ODOR: none

TURBIDITY: _____

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1205	DATE: 6/4/07

PH: 7.48 ✓SU CONDUCTIVITY: 717 umhos/cm

ORP: -228 ✓mv DO: 0.57 mg/L ✓

TURBIDITY: 18.9 NTU

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.1 ✓ °C OTHER: _____

COLOR: Clear ✓ ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO metals

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
								27.27	INITIAL (yes)
1125	200	7.22	716	-212	0.70		12.0°C	27.28	2 L
1130	200	7.26	715	-215	0.57		11.9°C	27.29	3 L
1135	200	7.36	715	-250	0.30		11.6		4 L
1140	200	7.37	717	-304	0.33		11.7		5 L
1145	200	7.39	717	-275	0.40		11.9	27.28	6 L
1150	200	7.40	716	-293	0.50		12.0		7 L
1155	200	7.46	716	-235	0.56		12.1	27.28	
1200	200	Heavy Rain - no readings						27.27	
1205	200	7.47	718	-231	0.60		12.0		10 L
1210	200	7.48	717	-228	0.57	18.9	12.1	27.29	11 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16 oz	PL	B	☒ Y ☐ N	1	8 oz	PL	A	☐ Y ☒ N
1	16 oz	PL	C	☐ Y ☒ N	2	40 mL	VOA	E	☐ Y ☒ N
1	8 oz	PL	A	☐ Y ☒ N	3	40 mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/4/07	AIRBILL NUMBER: 8616560060
COC NUMBER: SL #1	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: DTSO DATE: 6/4/07	BY: JHR DATE: 6/11/07

SAMPLE ID: MW-3 ~ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1308	DATE: 6/4/07

PURGE METHOD: ☒ PUMP dedicated ☐ BAILER _____

DEPTH TO WATER: 10.03 T/ PVC ~

DEPTH TO BOTTOM NR T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1345 ~	DATE: 6/4/07

PH: 7.28 ~ SU CONDUCTIVITY: 1914 ~ umhos/cm

ORP: -79 ~ mv DO: 0.34 ~ mg/L

TURBIDITY: 4.43 NTU ~

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.5 ~ °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
								10.03	INITIAL ~
1310	200	7.19	1947	52	1.64		13.5	10.50	0.5 L
1315	200	7.22	1912	-32	1.24		11.5	10.50	1.5 L
1320	200	7.25	1910	-48	0.65		11.5	10.51	2.5 L
1325	200	7.27	1915	-73	0.43		11.5	10.53	
1330	200	7.28	1916	-78	0.36		11.6	10.53	
1335	200	7.28	1915	-79	0.35		11.6	10.56	5.5 L
1340	200	7.28	1914	-79	0.34	4.43	11.5	10.56	6.5 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1L	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	1L	PL	C	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx DATE SHIPPED: 6/4/07 AIRBILL NUMBER: 8616 3600 6160

COC NUMBER: STL #1 CT#1 SIGNATURE: [signature] DATE SIGNED: 6/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TR DATE: 6-5-07	BY: SAR DATE: 8/11/07

SAMPLE ID: MW-10A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 9:42 A	DATE: 6-5-07	SAMPLE	TIME: 10:35 A ✓	DATE: 6-5-07

PURGE METHOD: ☒ PUMP ded. ☐ BAILER

DEPTH TO WATER: 16.44 T/ ~~PVC~~ case ✓

DEPTH TO BOTTOM NR T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: None ODOR: None

TURBIDITY: _____

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.50 ✓ SU CONDUCTIVITY: 742 umhos/cm

ORP: -147 mv DO: 0.70 mg/L

TURBIDITY: 43.9 NTU ✓

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.9 ✓ °C OTHER: _____

COLOR: None ODOR: None

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☒ MS/MSD ✓ ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
								16.44	INITIAL ✓
9:47	200	7.61	715	-362	1.13		11.6	16.47	1.0L
9:52	200	7.55	742	-293	1.03		11.6	16.48	2.0L
9:57	200	7.51	745	-256	1.62		12.1	16.48	
10:02	200	7.49	743	-233	1.59		11.9	16.48	
10:07	200	7.48	745	-194	1.35		11.9	16.48	5.0L
10:12	200	7.49	740	-175	0.77		11.9	16.48	
10:17	200	7.49	741	-165	0.77		12.1	16.48	
10:22	200	7.48	740	-155	0.74		12.0	16.48	8.0L
10:27	200	7.50	742	-147	0.70	43.9	11.9	16.48	9.0L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	B	⇔ Pl	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	C	⇔ Pl	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☐ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex DATE SHIPPED: 6/5/07 AIRBILL NUMBER: 8616 5600 6181

COC NUMBER: STL#2/CT#1 SIGNATURE: [signature] DATE SIGNED: 6/11/07 ✓

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: TRS	DATE: 6/5/07	BY: SAR	DATE: 8/1/07

SAMPLE ID: MW-75 ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER (TRS)

PURGING	TIME: 1318	DATE: 6/5/07	SAMPLE	TIME: ~~1245~~ 1405	DATE: 6/5/07

PURGE METHOD: ☒ PUMP ded ☐ BAILER

DEPTH TO WATER: _____ T/ PVC Artesian

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 8 ☒ LITERS ☐ GALLONS

COLOR: gray-brown ODOR: none

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☒ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.70 ✓SU CONDUCTIVITY: 696 ✓ umhos/cm

ORP: (TRS) ~~0.43~~ -42 mV DO: 0.43 ✓ mg/L

TURBIDITY: 507 NTU ✓

☐ NONE ☐ SLIGHT ☒ MODERATE ☒ VERY

TEMPERATURE: 10.2 ✓ °C OTHER: _____

COLOR: gray-br ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- 01

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1318								Artesian	INITIAL ✓
1335	200	7.70	694	-10	0.64		10.5		3L
1340	↓	7.70	694	-23	0.56		10.4		4L
1345		7.70	695	-27	0.48		10.4		5L
1350		7.70	696	-36	0.45		10.3		6L
1355		7.70	696	-39	0.41		10.3		7L
1400		7.70	696	-42	0.43	507	10.2		8L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- **10** ORP: +/- **10** D.O.: +/- **10** TURB: +/- **10** ORP </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/5/07	AIRBILL NUMBER: 861656006181 ✓
COC NUMBER: STL#2/CT#1	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/5/07	BY: TAL DATE: 8/1/07

SAMPLE ID: P64C ✓ | WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1535	DATE: 6/5/07

PURGE METHOD: ☒ PUMP ded ☐ BAILER _____

DEPTH TO WATER: 9.74 T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 10 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1620 ✓	DATE: 6/5/07

PH: 6.97 ✓ SU CONDUCTIVITY: 1037 ✓ umhos/cm

ORP: 14 ✓ mv DO: 1.01 ✓ mg/L

TURBIDITY: 6.68 ✓ NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.2 ✓ °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1535								9.74	INITIAL
1540	275	7.60	1095	174	4.64		10.8	9.86	
1545	225	7.37	1107	104	2.48		10.0	9.79	~4L
1550	200	7.17	1106	38	1.68		9.9	9.75	
1555	200	7.00	1063	12	0.95		10.0	9.74	~6L
1600	200	6.98	1039	13	1.07		10.1		
1605	200	6.98	1035	18	1.06		10.2	9.75	~8L
1610	200	6.98	1037	15	1.03		10.2		
1615	200	6.97	1037	14	1.01	6.68	10.2	9.74	~10L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1oz	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	1oz	PL	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/5/07	AIRBILL NUMBER: 8616 8606 6181
COC NUMBER: STL# 2/CT#1	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JBS DATE: 6/5/07	BY: SWR DATE: 6/11/07

SAMPLE ID: MW-10 ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 935	DATE: 6/5/07

PURGE METHOD: ☒ PUMP ded. ☐ BAILER

DEPTH TO WATER: 14.40 T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~16 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1050 ✓	DATE: 6/5/07

PH: 7.29 ✓ SU CONDUCTIVITY: 1176 ✓ umhos/cm

ORP: 49 ✓ mv DO: 2.43 ✓ mg/L

TURBIDITY: 21.2 ✓ NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.2 ✓ °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
	250							14.40	INITIAL ✓
940	200	7.55	667	199	10.24		13.5	14.45	
945	150	7.53	663	208	10.25		13.2	14.42	~2L
950	↓	7.50	678	203	9.55		13.1	14.41	
955		7.46	721	159	7.18		12.9	14.42	~5L
1000		7.41	940	90	5.72		13.0	14.40	
1005		7.39	969	82	5.26		13.0		~8L
1010		7.37	1031	75	4.83		13.1	14.40	
1015		7.30	1085	58	3.55		13.4		
1020		7.29	1110	54	3.07		13.2		~12L
1025	↓	7.28	1120	51	2.90		13.3	14.40	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	16oz	A	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/5/07	AIRBILL NUMBER: 8616806481
COC NUMBER: STL#2/CT#1	SIGNATURE:	DATE SIGNED: 6/11/07

WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JTB DATE: 6/5/07	BY: TAR DATE: 6/11/07

SAMPLE ID: MW-10 (Cont.)

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1030	150	7.28	1145	48	2.60		13.4		
1035	↓	7.28	1145	49	2.54		13.3		
1040		7.29	1148	47	2.48		13.3	14.40	
1045		7.29	1146	49	2.43	21.2	13.2		~16L ✓

SIGNATURE: [signature] DATE SIGNED: 6/5/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JPS DATE: 6/5/07	BY: JHR DATE: 8/1/07

SAMPLE ID: MW-11A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1145	DATE: 6/5/07	SAMPLE	TIME: 1240 ✓	DATE: 6/5/07

PURGE METHOD: ☒ PUMP ded ☐ BAILER _____

DEPTH TO WATER: 9.69 ✓ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 9.5 ☒ LITERS ☐ GALLONS

COLOR: Gray ODOR: none

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 8.54 SU ✓ CONDUCTIVITY: 589 ✓ umhos/cm

ORP: -148 mv ✓ DO: 0.14 ✓ mg/L

TURBIDITY: 764 ✓ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: Gray ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- ~~GT~~ (YES)

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1145								9.69	INITIAL ✓
1150	225	8.99	756	131	1.80		11.1	10.20	1.5L
1155	200	8.93	726	121	0.72		11.1	10.21	2.5
1200	↓	8.80	698	-117	0.13		10.7	10.21	
1205		8.76	707	-137	0.12		10.8	10.21	4.5
1210		8.63	672	-145	0.12		10.8		
1215		8.56	654	-148	0.13		10.8		6.5
1220		8.53	615	-151	0.13		10.7	10.24	
1225		8.53	610	-153	0.12		10.7		
1230		8.54	596	-151	0.13		10.6	10.23	8.5
1235		8.54	589	-148	0.14	764	10.6		9.5 ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	PL	B	☒ Y ☐ N	1	80z	PL	A	☐ Y ☒ N
1	1608	A	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	80z	PL	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/5/07	AIRBILL NUMBER: 8616 5600 6181
COC NUMBER: STL#2/CT#1	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: 6/5/07 DATE: JRS	BY: JRS DATE: 8/1/07

SAMPLE ID: CW-07 | WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER ✓

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☒ OTHER DW

PURGING	TIME: 815	DATE: 6/5/07

PURGE METHOD: ☒ PUMP City well pump ☐ BAILER

DEPTH TO WATER: NA T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 5 ☒ LITERS ☐ GALLONS

COLOR: clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 840 ✓	DATE: 6/5/07

PH: 7.14 ✓ SU CONDUCTIVITY: 718 ✓ umhos/cm

ORP: -15 ✓ mv DO: 0.41 ✓ mg/L

TURBIDITY: 4.76 NTU ✓

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.8 ✓ °C OTHER: _____

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☒ NO

FILTRATE COLOR: clear FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
815	250								INITIAL
820	↓	7.08	717	-6mV	0.60		11.0	NA	
825		7.10	714	-8mV	0.55		10.8		~2.5L
930		7.13	716	-12mV	0.43		10.8		
835		7.14	718	-15mV	0.41	4.76	10.8		~5L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/5/07	AIRBILL NUMBER: 861658006181 ✓
COC NUMBER: STL #2 / CT #1	SIGNATURE:	DATE SIGNED: 6/6/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JRS	DATE: 6/6/07	BY: JAR	DATE: 8/1/07

SAMPLE ID: MW-13A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1325	DATE: 6/6/07	SAMPLE	TIME: 1430 ✓	DATE: 6/6/07

PURGE METHOD: ☒ PUMP dd ☐ BAILER

DEPTH TO WATER: 18.71 T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: Clear → gray ODOR: none

TURBIDITY: Started clear → turbid @ 1345

☒ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.74 ✓ SU CONDUCTIVITY: 669 ✓ umhos/cm

ORP: -278 ✓ mv DO: 5.18 ✓ mg/L

TURBIDITY: 1000 ~~592~~ NTU (JRS) (JRS)

☒ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 11.6 ✓ °C OTHER:

COLOR: (JRS) ~~Clear~~ gray ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1325								18.71 ✓	INITIAL
1330	250	7.87	604	-165	8.83		14.4	18.75	
1335	225	7.87	600	-185	8.91		14.1	18.77	
1340	200	7.82	675	-346	8.20		13.2	18.75	
1345	200	7.83	630	-370	7.71		12.2	18.73	
1350	200	8.32	623	-486	6.45		12.7	18.72	
1355	200	8.33	473	-484	5.90		12.0		
1400	200	8.13	629	-369	5.71		11.8		
1405	200	7.78	703	-330	5.14		11.7	18.72	
1410	200	7.76	692	-281	5.24		11.7		
1415		7.75	686	-289	5.02		11.6		

Became very Turbid *

(cont.)

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 861656005969
COC NUMBER: STL#3/CT#2	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TAS DATE: 6/6/07	BY: SWL DATE: 6/11/07

SAMPLE ID: MW-13A

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1420	200	7.74	674	-284	5.26		11.6	18.71	
1425	200	7.74	669	-278	5.18	~~592~~ 1000	11.6		✓

SIGNATURE: _____ DATE SIGNED: _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TRS DATE: 6/6/07	BY: SMK DATE: 8/1/07

SAMPLE ID: MW-06 ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1220	DATE: 6/6/07

PURGE METHOD: ☒ PUMP ded. ☐ BAILER

DEPTH TO WATER: Artesian T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 8 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1300 ✓	DATE: 6/6/07

PH: 7.48 ✓ SU CONDUCTIVITY: 568 ✓ umhos/cm

ORP: -100 ✓ mv DO: 0.55 ✓ mg/L

TURBIDITY: 2.72 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.0 ✓ °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☒ DUP- 02

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1220								Artesian ✓	INITIAL
1225	200	7.55	611	-26	1.15		11.8		~1 L
1230	200	7.50	586	-77	0.71		11.4		
1235	200	7.49	581	-86	0.64		11.2		~3L
1240	200	7.48	574	-94	0.59		11.0		
1245	200	7.48	570	-97	0.57		10.9		~5L
1250	200	7.48	569	-99	0.55		10.9		
1255	200	7.48	568	-100	0.55	2.72	11.0		✓
1300	Sample								~8L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 861656009469 ✓
COC NUMBER: STL#3/CT#2	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JTDS	DATE: 6/6/07	BY: [illegible]	DATE: 8/1/07

SAMPLE ID: MW-13S ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1438	DATE: 6/6/07	SAMPLE	TIME: 1510 ✓	DATE: 6/6/07

PURGE METHOD: ☒ PUMP dev ☐ BAILER

DEPTH TO WATER: 18.71 T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 7 ☒ LITERS ☐ GALLONS

COLOR: red-brown ODOR: none

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.43 ✓ SU CONDUCTIVITY: 730 ✓ umhos/cm

ORP: 162 ✓ mv DO: 4.36 mg/L ✓

TURBIDITY: 150 NTU ✓

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

TEMPERATURE: 11.9 ✓ °C OTHER: _____

COLOR: red-brown ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1438	275							18.71 ✓	INITIAL
1440	250	7.44	756	153	4.70		12.0	18.76	
1445	225	7.43	748	155	4.61		11.9	18.77	
1450	200	7.43	739	159	4.50		11.9	18.79	~3L
1455	200	7.41	736	157	4.43		11.9	18.80	
1500	↓	7.42	733	160	4.38		11.9	18.80	
1505	↓	7.43	730	162	4.36	150	11.9	18.78	✓
1510		sample							~7L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 861656005169
COC NUMBER: STL#3/CT#2	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/6/07	BY: SMR DATE: 6/11/07

SAMPLE ID: MW-17A ✓ | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1032	DATE: 6/6/07

PURGE METHOD: ☒ PUMP Dev ☐ BAILER

DEPTH TO WATER: Artesian ft PVC

DEPTH TO BOTTOM _____ ft PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 6.5 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1110 ✓	DATE: 6/6/07

PH: 7.19 ✓ SU | CONDUCTIVITY: 1032 ✓ umhos/cm

ORP: 12 ✓ mv | DO: 0.59 mg/L ✓

TURBIDITY: 4.98 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.4 ✓ °C | OTHER: _____

COLOR: Clear | ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear | FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1032	200	7.28	1080	98	5.38		13.9	Artesian ✓	INITIAL
1035	200	7.23	1055	37	2.43		12.6		~2.5L
1040	200	7.22	1046	35	2.26		12.6		
1045	200	7.20	1045	11	0.97		12.5		~2.5L
1050	200	7.20	1032	13	0.82		12.5		
1055	200	7.19	1023	12	0.71		12.4		
1100	200	7.19	1030	14	0.63		12.4		
1104	200	7.19	1032	12	0.59	4.98	12.4		~6.5L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	P	B	☒ Y ☐ N	1	8oz	P	A	☐ Y ☒ N
1	16oz	P	C	☐ Y ☒ N	2	40ml	VOA	F	☐ Y ☒ N
1	8oz	P	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 8616 5600 5469
COC NUMBER: STL #3/CT02	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/6/07	BY: JAR DATE: 8/1/07

SAMPLE ID: MW-01A ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 920	DATE: 6/6/07	SAMPLE	TIME: 1000	DATE: 6/6/07

PURGE METHOD: ☒ PUMP ded. ☐ BAILER

DEPTH TO WATER: 18.25 T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: ~8 ☒ LITERS ☐ GALLONS

COLOR: clear ODOR: Sl. sulfur

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.09 SU CONDUCTIVITY: 1390 umhos/cm

ORP: -140 mv DO: 0.38 mg/L

TURBIDITY: 4.77 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.7 °C OTHER: _____

COLOR: clear ODOR: Sl. sulfur

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: Sl. sulfur

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
920								18.25	INITIAL
925	200	7.35	1372	-92	0.63		11.7	18.28	~1L
930	200	7.22	1367	-87	1.13		11.8	18.28	
935	200	7.11	1380	-114	0.69		11.8	18.28	
940	200	7.10	1387	-129	0.52		11.7	18.29	
945	200	7.10	1391	-133	0.48		11.7		
950	200	7.10	1391	-140	0.40		11.7	18.29	
955	200	7.09	1390	-140	0.38	4.77	11.7		~7L
1000									
~~1005~~									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 861656005169
COC NUMBER: STL#3 /CT#2	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRG DATE: 6/6/07	BY: JRG DATE: 6/11/07

SAMPLE ID: MW-02 ✓ | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 745	DATE: 6/6/07

PURGE METHOD: ☒ PUMP ded ☐ BAILER

DEPTH TO WATER: 45.42 T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 9 ☒ LITERS ☐ GALLONS

COLOR: clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 835 ✓	DATE: 6/6/07

PH: 6.90 ✓ SU CONDUCTIVITY: 953 ✓ umhos/cm

ORP: -33 ✓ mv DO: 7.17 mg/L

TURBIDITY: 7.66 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.8 ✓ °C OTHER: _____

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
745	250							45.42 ✓	INITIAL
750	225	6.94	954	-20	9.89			45.49	1.25
755	200	6.92	950	-32	9.30		11.6		2.25
800	200 ✓	6.91	951	-33	8.93		11.6	45.44	
805	↓	6.90	956	-34	8.75		11.6		
810	↓	6.90	959	-31	8.29		11.7	45.45	2.5 L
815		6.90	962	-36	7.47		11.7		
820		6.90	958	-35	7.24		11.8	45.44	
825		6.90	956	-34	7.22		11.8		
830		6.90	953	-33	7.17	7.66	11.8	45.44	~9L~

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8 oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8 oz	Pl	A	☐ Y ☒ N	3	40 ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/6/07	AIRBILL NUMBER: 8616 5600 5697
COC NUMBER: STL #3 / CT #2	SIGNATURE: [signature]	DATE SIGNED: 6/11/07 ✓

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/7/07	BY: BMK DATE: 8/1/07

SAMPLE ID: MW-3A (Resample) WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1325	DATE: 6/7/07	SAMPLE	TIME: 1430	DATE: 6/7/07

PURGE METHOD: ☒ PUMP dedicated ☐ BAILER

DEPTH TO WATER: 12.91 T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 4 ☐ LITERS ☒ GALLONS

COLOR: lt. gray ODOR: none

TURBIDITY: _____

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 8.30 SU CONDUCTIVITY: 440 umhos/cm

ORP: -94 mv DO: 0.43 mg/L

TURBIDITY: 55.7 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.3 °C OTHER: _____

COLOR: lt. gray ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1325	200							12.91	INITIAL
1328	150							13.65	
1330	100	8.24	436	163	2.08		18.3	13.66	
1332	50							13.74	
1335		8.15	438	159	5.10			13.73	
1340	1280	8.27	418	167	2.91		12.9	14.64	
1342	280							16.86	
1345	500	8.30	436	10	0.16		10.8	23.25	
1350	500	8.32	435	-28	0.14	102	10.8	27.99	
1355	150	8.28	439	-60	0.39		13.8	29.85	
1400	100			-66	0.39			29.91	

see note on page 2

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1 liter	P	B	☒ Y ☐ N	1	8oz	P	A	☐ Y ☒ N
1	1 liter	P	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	P	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: FedEx DATE SHIPPED: 6/7/07 AIRBILL NUMBER: 8616 5800 6207

COC NUMBER: STL 1 / CTHF2 SIGNATURE: Jon Sjoquist DATE SIGNED: 6/11/07

RMT

WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/7/07	BY: JHR DATE: 6/11/07

SAMPLE ID: MW-03A

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1405	100	8.26	433	-65	0.44		14.1	29.28	
1410	140	8.27	436	-74	0.42		13.2	29.30	
1415	↓	8.28	435	-83	0.43		13.3	29.30	
1420	↓120	8.29	441	-89	0.44		13.3	29.31	
1425		8.30	440	-94	0.43	55.7	13.3	29.28	~4.0 gals

* Sampled per QAPP guidelines - purge to pump level down then decrease purge rate to maintain a level to stabilization + sampling -

SIGNATURE: [signature]

DATE SIGNED: _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/7/07	BY: [illegible] DATE: 8/1/07

SAMPLE ID: MW-04 ✓ | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 755	DATE: 6/7/07	SAMPLE	TIME: 905 ✓	DATE: 6/7/07
PURGE METHOD: ☒ PUMP ded. ☐ BAILER			PH: 6.81 ✓ SU	CONDUCTIVITY: 1492 ✓ umhos/cm	
			ORP: -22 ✓ mv	DO: 0.57 ✓ mg/L	
DEPTH TO WATER: 18.18 T/ PVC			TURBIDITY: 4.16 NTU		
DEPTH TO BOTTOM ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: ____	°C OTHER: ____	
VOLUME REMOVED: 12 ☒ LITERS ☐ GALLONS			COLOR: clear	ODOR: none	
COLOR: Clear	ODOR: none		FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY: ____			FILTRATE COLOR: Clear	FILTRATE ODOR: none	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP- ____	
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
758	250							18.18 ✓	INITIAL
800	200	6.71	1475	6	2.39		13.0	18.20	1.25
805	200	6.71	1425	-9	1.89		13.2	18.19	2.25
810	200	6.72	1426	-11	1.09		13.4	18.20	
815	200	6.73	1465	-17	0.97		13.5	18.20	4.25
820	200	6.74	1466	-19	0.95		13.6	18.21	
825	200	6.75	1468	-20	0.92		13.4	18.21	6.25
830	200	6.76	1470	-21	0.86		13.2	18.21	
835	200	6.77	1480	-22	0.76		12.6	18.21	8.25
840	200	6.78	1493	-21	0.72		12.5	18.21	
845	200	6.79	1486	-24	0.68		12.4	18.21	10.25

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1602	P/	B	☒ Y ☐ N	1	A	P/	0oz	☐ Y ☒ N
1	1607	P/	C	☐ Y ☒ N	2	E	VOA	40ml	☐ Y ☒ N
1	807	P/	A	☐ Y ☒ N	3	E	VOA	40ml	☐ Y ☒ N

SHIPPING METHOD: FedEx DATE SHIPPED: 6/7/07 AIRBILL NUMBER: 8616 5600 6207

COC NUMBER: STL # 4/CTA2 SIGNATURE: [signature] DATE SIGNED: 6/11/07 ✓

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JTA DATE: 6/7/07	BY: SAH DATE: 6/11/07

SAMPLE ID: MW-04

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
850	200	6.80	1487	-22	0.60		12.4	18.20	
855	200	6.81	1489	-23	0.58		12.3		
900	200	6.81	1492	-22	0.57	4.16	12.2	18.21	12.5L

SIGNATURE: Jon Elgett DATE SIGNED: _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/7/07	BY: JHR DATE: 8/1/07

SAMPLE ID: MW-05 ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 950	DATE: 6/7/07	SAMPLE	TIME: 1045	DATE: 6/7/07

PURGE METHOD: ☒ PUMP ded ☐ BAILER

DEPTH TO WATER: Artesian T/ PVC N/A

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 9 ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.11 SU CONDUCTIVITY: 1245 umhos/cm

ORP: -71 mv DO: 0.36 mg/L

TURBIDITY: 20.2 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.7 °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
950	~250							Artesian? - not flowing	INITIAL
955	~240							N/A	1.25
1000	~200	7.31	1302	220	0.57		11.7	↓	2.5
1005	~200	7.12	1335	-35	0.54		11.8		
1010	~200	7.11	1269	-42	0.50		11.9		4.5
1015	~200	7.11	1259	-51	0.43		11.7		
1020	~200	7.11	1243	-60	0.40		11.8		
1025	~200	7.12	1251	-70	0.38		11.8		6.0 L
1030	~200	7.12	1264	-69	0.37		11.7		
1035	~200	7.11	1254	-69	0.37		11.7		
1040	~200	7.11	1245	-71	0.36	20.2	11.7		9.0 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex DATE SHIPPED: 6/7/07 AIRBILL NUMBER: 8616 5600 6207

COC NUMBER: STL#4 CT#2 SIGNATURE: [signature] DATE SIGNED: 6/11/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JTS DATE: 6/8/07	BY: TAR DATE: 6/11/07

SAMPLE MW Dyer A (East) ✓ | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1338	DATE: 6/8/07	SAMPLE	TIME: 1410 ✓	DATE: 6/8/07

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER

DEPTH TO WATER: 5.05 T/ PVC ✓

DEPTH TO BOTTOM 30.25 T/ PVC +0.18

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 4 ☒ LITERS ☐ GALLONS

COLOR: V. lt gray ODOR: none

TURBIDITY: _____

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.26 ✓ SU CONDUCTIVITY: 769 ✓ umhos/cm

ORP: 154 ✓ mv DO: 0.47 ✓ mg/L

TURBIDITY: 6.24 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.5 ✓ °C OTHER: _____

COLOR: clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

Rob Reineke Sign for Rose.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1338	275							5.05 ✓	INITIAL
1343	200	7.29	786	142	0.40		11.1	6.67	1.25L
1346	175	7.29	789	148	0.28		11.8	6.93	
1350	150	7.26	792	147	0.31		12.1	7.78	
1353	125							7.83	
1355	100	7.25	785	153	0.48		12.3	7.90	
1357	80	7.25	770	154	0.49		12.3	7.92	
1400	80	7.25	768	155	0.48		12.4	7.93	
1405	80	7.26	769	154	0.47	6.24	12.5	7.95	~4L
1410									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	☐ Y ☒ N	1	8oz	PL	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N	1	16oz	PL	B	☒ Y ☐ N
1	8oz	PL	A	☐ Y ☒ N	1	16oz	PL	C	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/8/07	AIRBILL NUMBER: 8616 5600 6952
COC NUMBER: STL#5 CT#3	SIGNATURE:	DATE SIGNED: 6/11/07 ✓

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TPS DATE: 6/8/07	BY: [illegible] DATE: 8/1/07

SAMPLE ID: P2-Dyer ✓ | WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1445	DATE: 6/8/07
PURGE METHOD:	☒ PUMP bladder	☐ BAILER
DEPTH TO WATER: 1.55	T/ PVC ✓	
DEPTH TO BOTTOM NR	T/ PVC	
WELL VOLUME:	☐ LITERS	☐ GALLONS
VOLUME REMOVED: 7.5	☒ LITERS	☐ GALLONS
COLOR: v. lt gray	ODOR: none	
TURBIDITY:		
☒ NONE	☒ SLIGHT	☐ MODERATE ☐ VERY
DISPOSAL METHOD ☐ GROUND	☐ DRUM	☒ OTHER

SAMPLE	TIME: 1530 ✓	DATE: 6/8/07
PH: 7.37 ✓ SU	CONDUCTIVITY: 709 ✓ umhos/cm	
ORP: -58 ✓ mv	DO: 0.18 ✓ mg/L	
TURBIDITY: 1000 ✓ NTU		
☐ NONE	☒ SLIGHT	☒ MODERATE ☐ VERY
TEMPERATURE: 12.6 °C	OTHER:	
COLOR: gray	ODOR: none	
FILTRATE (0.45 um) ☒ YES	☐ NO	
FILTRATE COLOR: Clear	FILTRATE ODOR: none	
QC SAMPLE: ☐ MS/MSD	☐ DUP-	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1445	~200							1.55 ✓	INITIAL
1450	~200	7.24	797	-4mV	1.17		13.2	1.55	1L
1455		7.27	769	-29	0.66		13.0		
1500	~200	7.32	758	-35	0.35		12.7	1.55	
1505		7.33	747	-45	0.25		12.6	1.55	4L
1510	~200	7.36	702	-52	0.19		12.7	1.56	
1515		7.36	717	-51	0.20		12.6		
1520	~200	7.36	710	-58	0.16		12.7		7L
1525		7.37	709	-58	0.18	1000	12.6		-

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40ml	VOA	E	☐ Y ☒ N	1	8oz	P/	A	☐ Y ☒ N
2	40ml	VOA	E	☐ Y ☒ N	1	16oz	B ⟷ P/		☒ Y ☐ N
1	8oz	P/	A	☐ Y ☒ N	1	16oz	C ⟷ P/		☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/8/07	AIRBILL NUMBER: 8616 5600 6192
COC NUMBER: STL #5 ~~OT #3~~	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JDS	DATE: 6/8/07	BY: [illegible]	DATE: 8/1/07

SAMPLE ID: P2-Stagecoach
WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER
WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER
SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1145	DATE: 6/8/07	SAMPLE	TIME: 1230	DATE: 6/7/07

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER
DEPTH TO WATER: 11.79 T/ PVC
DEPTH TO BOTTOM NR T/ PVC
WELL VOLUME: ☐ LITERS ☐ GALLONS
VOLUME REMOVED: 7 ☒ LITERS ☐ GALLONS
COLOR: lt. reddish-brown iron stain ODOR: none
TURBIDITY:
☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 8.68 SU CONDUCTIVITY: 883 umhos/cm
ORP: -274 mv DO: 0.16 mg/L
TURBIDITY: 104 NTU
☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY
TEMPERATURE: 12.3 °C OTHER:
COLOR: lt. gray ODOR: none
FILTRATE (0.45 um) ☒ YES ☐ NO
FILTRATE COLOR: Clear FILTRATE ODOR: none
QC SAMPLE: ☐ MS/MSD ☐ DUP-
COMMENTS:

2" steel - part of 6" steel procasing

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1145	80								INITIAL
1152	80	8.61	867	156	1.67		15.2		← 11.79
1155	200	8.66	891	17mV	0.54		12.6	11.80	
1200	200	8.67	887	-185	0.32		12.3	11.80	
1205	200	8.67	890	-246	0.26		12.4	11.81	
1210	200	8.67	884	-255	0.22		12.4	11.81	
1215	200	8.67	885	-268	0.18		12.4	11.81	
1220	200	8.67	883	-269	0.17		12.5	11.81	
1225	200	8.68	883	-274	0.16	104	12.3	11.81	~6.5L
1230									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	☐ Y ☒ N	1	8oz	PI	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N	1	16oz	PI	B	☒ Y ☐ N
1	8oz	PI	A	☐ Y ☒ N	1	16oz	PI	C	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/8/07	AIRBILL NUMBER: 8616 5600 6192
COC NUMBER: STL#5 CT#3	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

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WATER SAMPLE LOG

RMT

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JMS DATE: 6/8/07	BY: [illegible] DATE: 6/11/07

SAMPLE ID: P2-Moose ✓ WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

Soc's Test America

PURGING	TIME: 1005	DATE: 6/8/07	SAMPLE (JRS)	TIME: 1055	DATE: 6/8/07
PURGE METHOD:	[X] PUMP Bladder [ ] BAILER		PH: ~~7.05~~ 7.07 SU (JRS)	CONDUCTIVITY: 778 umhos/cm	
			ORP: ~~172~~ 167 mv	DO: (JRS) 4.42 mg/L	
DEPTH TO WATER: ~~38.01~~ T/ PVC 35.01 (JRS)			TURBIDITY: 94.0 NTU		
DEPTH TO BOTTOM 95.91 T/ PVC			[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY		
WELL VOLUME:	[ ] LITERS [ ] GALLONS		TEMPERATURE: 12.2 °C	OTHER:	
VOLUME REMOVED: 6.5	[X] LITERS [ ] GALLONS		COLOR: lt. gray	ODOR: none	
COLOR: lt. gray	ODOR: non		FILTRATE (0.45 um) [X] YES	[ ] NO	
TURBIDITY:			FILTRATE COLOR: clear	FILTRATE ODOR: none	
[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY			QC SAMPLE: [ ] MS/MSD	[ ] DUP-	
DISPOSAL METHOD [ ] GROUND [ ] DRUM [X] OTHER			COMMENTS:		

35.01 DTW - no pump

32.92 right after starting

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1005	225							~~33.01~~ 35.01	INITIAL
1010	160	6.58	766	208	12.31		12.4	32.92	~1L
1015	150	7.00	781	218	14.01		12.1	33.04	~1.8L
1020	140	7.07	785	236	12.27		13.0	34.40	
1025	140	7.08	778	234	11.45		12.1	33.73	~3.25L
1030		6.99	783	236	8.31		12.1	34.04	
1035	120	7.01	786	229	7.47		12.2	33.89	
1040	120	7.03	785	219	6.70		12.2	33.85	
1045	120	7.04	781	191	6.18		12.1	33.78	
1048	140	7.05	783	189	5.52		12.1	33.81	~4.5L
1050	140	7.05	783	172	5.10		12.1		

Set pump @ ~ 90'

Real Touchy getting steady depth

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	[ ] Y [X] N	1	8oz	Pl	A	[ ] Y [X] N
2	40mL	VOA	E	[ ] Y [X] N	1	16oz	Pl	B	[X] Y [ ] N
1	8oz	Pl	A	[ ] Y [X] N	1	16oz	Pl	C	[ ] Y [X] N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/8/07	AIRBILL NUMBER: 8616 5600 6192
COC NUMBER: STL#5 CT#3	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

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WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JRS DATE: 6/8/07	BY: JAR DATE: 8/1/07

SAMPLE ID: ~~AA~~ PZ-Moose

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1053	140	7.06	782	164	5.10		12.1		
1055	140	7.07	778	167	4.42	94.0	12.2		~6.5L
~~1058~~	140								
~~1100~~	140								

SIGNATURE: _____ DATE SIGNED: _____

WATER SAMPLE LOG

PROJECT NAME: MSGRG-Phase 2	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JTB	DATE: 6/8/07	BY: [illegible]	DATE: 8/1/07

SAMPLE ID: PW_A. Vitrano ✓ | WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1550	DATE: 6/8/07	SAMPLE	TIME: 1600 ~	DATE: 6/8/07
PURGE METHOD: ☐ PUMP Artesian Flow ☐ BAILER _____			PH: 7.33 ~SU	CONDUCTIVITY: 1195 umhos/cm	
			ORP: -114 ~ mv	DO: 2-18 ~ mg/L	
DEPTH TO WATER: Artesian PVC ~			TURBIDITY: 70.9 ~ NTU		
DEPTH TO BOTTOM _____ T/ PVC			☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
VOLUME REMOVED: 10+ ☒ LITERS ☐ GALLONS			COLOR: Clear	ODOR: Sl. sulfur	
COLOR: Clear ODOR: Sl. sulfur			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY: _____			FILTRATE COLOR: Clear	FILTRATE ODOR: Sl. Sulfur	
☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP- _____		
DISPOSAL METHOD ☒ GROUND ☐ DRUM ☒ OTHER (TCS)			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1555	>1000	7.33	1195	-114	2-18	70.9	15.0	Artesian	INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- **10** ORP: +/- **10** D.O.: +/- **10** TURB: +/- **10** ORP </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	☐ Y ☒ N	1	8oz	PL	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N	1	16oz	PL	B	☒ Y ☐ N
1	8oz	PL	A	☐ Y ☒ N	1	16oz	PL	C	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/9/07	AIRBILL NUMBER: 8616 5600 6192 ✓
COC NUMBER: STL # 5 CT # 3	SIGNATURE: [signature]	DATE SIGNED: 6/11/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG-Phase 2	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JRG	DATE: 6/8/07	BY: JAN	DATE: 8/1/07

SAMPLE ID: PW-Moeller ✓ WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: NA	DATE: 6/8/07	SAMPLE	TIME: 1635	DATE: 6/8/07

PURGE METHOD: ☐ PUMP Continuously flowing ☐ BAILER to ground

DEPTH TO WATER: Artesian T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 10+ ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER

PH: 7.57 SU CONDUCTIVITY: 1508 umhos/cm

ORP: -138 mv DO: 1.98 mg/L

TURBIDITY: 11.8 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: ~~☒~~ 12.7 °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1630	>1000	7.57	1508	-138	1.98	12.7	11.8	Artesian	INITIAL ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- **10** ORP: +/- **10** D.O.: +/- **10** TURB: +/- **10** ORP </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	☐ Y ☒ N	1	8oz	Pl	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N	1	16oz	Pl	B	☒ Y ☐ N
1	8oz	Pl	A	☐ Y ☒ N	1	16oz	Pl	C	☐ Y ☒ N

SHIPPING METHOD: Fedex	DATE SHIPPED: 6/8/07	AIRBILL NUMBER: 8616560 6192
COC NUMBER: STR#5 CT#3	SIGNATURE: [signature]	DATE SIGNED: 6/11/07 ✓

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WATER SAMPLE LOG

PROJECT NAME: MSGRG-Phase 2	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: JRS	DATE: 6/8/07	BY: JAT	DATE: 8/1/07

SAMPLE ID: PW-Mogeske ✓ | WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 20+ min	DATE: 6/8/07	SAMPLE ✓	TIME: 1650 ✓	DATE: 6/9/07
PURGE METHOD: ☒ PUMP well pump ☐ BAILER			PH: 7.50 SU	CONDUCTIVITY: 1276 umhos/cm	
			ORP: -51 mv	DO: 3.12 mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: 8.07 NTU		
DEPTH TO BOTTOM _____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.5 °C	OTHER: _____	
VOLUME REMOVED: 2100 ☐ LITERS ☒ GALLONS			COLOR: Clear	ODOR: none	
COLOR: Clear	ODOR: none		FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY: _____			FILTRATE COLOR: Clear	FILTRATE ODOR: none	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP- _____	
DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- **0.1** COND.: +/- **10** ORP: +/- **10** D.O.: +/- **10** TURB: +/- **10** ORP </= **5** TEMP.: +/- **0.5°C**

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
3	40mL	VOA	E	☐ Y ☒ N	1	8oz	P	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N	1	16oz	P	B	☒ Y ☐ N
1	8oz	PL	A	☐ Y ☒ N	1	16oz	P	C	☐ Y ☒ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 6/10/07	AIRBILL NUMBER: 8616 5600 6152
COC NUMBER: CTL #5 CT #3	SIGNATURE: [signature]	DATE SIGNED: 6/11/07 ✓

STL

WASTE MANAGEMENT CHAIN OF CUSTODY

#1

Internal Use Only

Sampler Name (Print)	Signature:
J. Schoephoester	[signature]
Site Name: MSGRG	Spec Request: AC 72755
Site Location: Muskego, WI	Event Name: Phase II EGQMP

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

				MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
	MW-3	6/4/07	1345	GW	X			X	X				X	X	X	X				See sampling
	MW-8A	6/4/07	1215	↓	X			X	X				X	X	X	X				program/Condore
	MW-3A	6/4/07	1450	↓	X			X	X				X	X	X	X				Fax 716-504-9844
	E-137B	6/4/07	1620	↓	X			X	X				X	X	X	X				w/ Questions
	E-137A	6/4/07	1615	↓	X			X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT	6/4/07	1800				

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS
Proj # NY5A586233

Courier:

Bill of Lading:

STL-8219 (1002)

TRENT STL

WASTE MANAGEMENT
CHAIN OF CUSTODY

STL #2

Internal Use Only

Sampler Name (Print): J. Schoephoerster	Signature: [signature]
Site Name: MSGRG	Spec Request: AC 72755
Site Location: Muskegon, IL	Event Name: Phase II EGQMP

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

[redacted]	[redacted]	[redacted]	[redacted]	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
	MW-10A	6/5/07	1035					X	X				X	X	X	X				MS/MSD Sample
	MW-9A	6/5/07	855					X	X				X	X	X	X				
	MW-7	6/5/07	1435					X	X				X	X	X	X				
	E-93D	6/5/07	1630					X	X				X	X	X	X				
	P64C	6/5/07	1620					X	X				X	X	X	X				
	MW-7S	6/5/07	1405					X	X				X	X	X	X				
	CW-07	6/5/07	840					X	X				X	X	X	X				
	MW-11A	6/5/07	1240					X	X				X	X	X	X				
	MW-10	6/5/07	1050					X	X				X	X	X	X				
	DUP-01	6/5/07	—					X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT to Cody	6/5/07	1900				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- SI = Sludge
- MS = Miscellaneous Solids
- OI = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier:
Proj. # NY5A586233	
See sampling program or Candace Fox 716-504-9844 w/ Questions	Bill of Lading:

STL-8219 (1002)

127

FRENT STL

WASTE MANAGEMENT
CHAIN OF CUSTODY

2 of 2

Internal Use Only

Sampler Name (Print)	Signature:
T. Schaephoster	[signature]
Site Name: MSGPG	Spec Request: AC 72755
Site Location: Muskego	Event Name: Phase II

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

				MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
	DUP-02	6/6/07	—					X	X				X	X	X	X				See Sampling program

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT Tukoda	6/6/07	1900				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Courier: Fedex 2 coolers

Bill of Lading:

STL-8219 (1002)

TRENT **STL**

WASTE MANAGEMENT
CHAIN OF CUSTODY

STL #3
2 coolers

Internal-Use Only

Sampler Name (Print)	Signature
J. Schoephoester	
Site Name: MSCRC	**Spec Request:** AC 72755
Site Location: Muskego, WI	**Event Name:** Phase II

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

				MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
	MW-13A	6/6/17	1430	GW				X	X				X	X	X	X				See sample plan
	MW-13S		1510	↓				X	X				X	X	X	X				
	MW-06		1300					X	X				X	X	X	X				
	MW-17A		1110					X	X				X	X	X	X				
	MW-01A		1000					X	X				X	X	X	X				
	MW-02		835					X	X				X	X	X	X				
	E-135A		1340					X	X				X	X	X	X				
	E-135B		1450					X	X				X	X	X	X				
	MW-17		1120					X	X				X	X	X	X				
	MW-01B		950					X	X				X	X	X	X				
	MW-01		850					X	X				X	X	X	X				
	MW-15A	↓	1620					X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT	6/6/17	1900				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water/Groundwater
S = Solid
Sl = Sludge
MS = Miscellaneous Solids
Ol = Oil
A = Air
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS Proj # NYSA586233
See Canforce Fax, 716-504-9844 w/ Questions

Courier: FedEx - 2 coolers

Bill of Lading:

STL-8219 (1002)

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TRENT **STL**

WASTE MANAGEMENT
CHAIN OF CUSTODY

STL #4 1 of 1

1 cooler

Internal Use Only

Sampler Name (Print)	Signature:
J. Schoephoester	[signature]
Site Name: MSGRG	Spec Request: AC 72755
Site Location: Muskego, WI	Event Name: Phase II

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

				MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
	E-93D	6/7/07	1457	GW				X	X				X	X	X	X				See sampling plan
	E-141A	↓	1240	↓				X	X				X	X	X	X				
	MW-14A		1040					X	X				X	X	X	X				
	MW-3A		1430					X	X				X	X	X	X				
	MW-5		1045					X	X				X	X	X	X				
	MW-4		905					X	X				X	X	X	X				
	Field Blank	6/7/07	1610					X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT To Cooler	6/7/07	1830				

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- SI = Sludge
- MS = Miscellaneous Solids
- OI = Oil
- A = Air
- = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS Proj # NYSA586233
See Candace Fox 716-504-9844 w/ Questions

Courier: FedEx - 1 Cooler

Bill of Lading:

STL-8219 (1002)

130

TRENT STL

WASTE MANAGEMENT
CHAIN OF CUSTODY

STL#5

Internal Use Only

Sampler Name (Print)	Signature
J. Schoephoester	[signature]
Site Name: MSBRG	Spec Request: AC 72755
Site Location: Muskego, WI	Event Name: Phase II

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

			MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK				Additional Analysis/Remarks
PW-Vitrano	6/8/07	1600					X	X				X	X	X	X				See Sampling
PW-Moeller	↓	1635					X	X				X	X	X	X				plan / Cardiac
PW-Mageske	↓	1650					X	X				X	X	X	X				FOL
PZ-Dyer	↓	1530					X	X				X	X	X	X				
MW Dyer	↓	1410					X	X				X	X	X	X				
PZ-Stagecoach	↓	1230					X	X				X	X	X	X				
PZ-Moose	↓	1055					X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT	6/8/07	2000				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS Pig + NYSA586233

Courier: Fedex - 1 cooler

Bill of Lading:

STL-8219 (1002)

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Rev. 3/2006

Chain of Custody

Page 1 of 2

Company: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: MSGRB
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: J. Schoephoerster

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CT Laboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
(Normal) RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT
Address: 744 Heartland Trail
City/State/Zip: Madison, WI 53717

Invoice To:
Company: RMT - Accts Rec.
Address: Same as above
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOC 8260 Low Level	MS/MSD Sample						Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test											
6/4/07	1345	Grab	MW-3		GW	X							3	B	
6/4/07	1215		MW-8A			X							3	B	
6/4/07	1450		MW-3A			X							3	B	
6/4/07	1620		E-137B			X							3	B	
6/4/07	1615		E-137A			X							3	B	
6/5/07	1035		MW-10A			X	X								
6/5/07	855		MW-9A			X									
	1435		MW-7			X									
	1630		E-93D			X									
	1620		PGAC			X									
	1405		MW-7S			X									
	840		CW-07			X									
	1240		MW-11A			X									

Relinquished By:	Date/Time	Relinquished By:	Date/Time
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

**Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Rev. 3/2006

Chain of Custody

Page 2 of 2

Company: RMT
Project Contact: Ken Owen
Telephone:
Project Name: Same as page 1
Project Number:
Project Location: Muskegon, MI.
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To:
Company:
Address:
City/State/Zip: Same as page 1

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOC 8260 Low Level							Total # of Containers	Preservation*	Lab ID #
				Filt? Y/N											
				Fill in Spaces with Bottles per Test											
6/5/07	1050		MW-10		GW	X							3	B	
6/5/07	—		DUP-01		↓	X							3	B	
—	—		Trip Blank		—	X							2	B	

Relinquished By: [signature] Date/Time 6/5/07 1400 EST
Relinquished By: Date/Time
Received by: Date/Time
Received for Laboratory by: Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

* **Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

** **Matrix**
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Rev. 3/2006

Chain of Custody

Page 1 of 2

Company: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: MSGR6-Phase II
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: Josan Scharphorst

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal ~~RUSH~~*
~~Date Needed~~ _____
*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To: Ken Quinn
Company: RMT
Address: 744 Heartland Trail
City/State/Zip: Madison

Invoice To: Accts Rec.
Company:
Address: Same as above
City/State/Zip:

PO No.

Client Special Instructions:
Contact Pat L. or Ken Quinn (RMT) w/ questions
Low level VOCs

Landfill License Number: _

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	Filt? Y/N	VOC 8260 Low level								Total # of Containers	Preservation*	Lab ID #
							N										
							Fill in Spaces with Bottles per Test										
6/7/07	1045		MW-05		Gw		X								3	B	
6/7/07	905		MW-04				X										
6/7/07	1457		E-93D				X										
6/7/07	1240		E-141A				X										
6/7/07	1040		MW-14A				X										
6/7/07	1430		MW-3A				X										
6/6/07	855		MW-02				X										
6/6/07	850		MW-01				X										
6/6/07	1450		E-135B				X										
6/6/07	1346		E-135A				X										
6/6/07	1120		MW-17				X										
6/6/07	950		MW-01B				X										
6/6/07	1620		MW-15A				X										

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	6/7/07 1830		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

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Rev. 3/2006

Chain of Custody

Page 2 of 2

Company: RMT
Project Contact:
Telephone:
Project Name: Same as page 1
Project Number: as page 1
Project Location: Muskego, WI
Sampled By:

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To:
Company:
Address:
City/State/Zip: Same as page 1

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260 Low Level							Total # of Containers	Preservation*	Lab ID #
				Fill in Spaces with Bottles per Test											
6/6/07	1000	Grab	MW-01A		GW	X							3	B	
6/6/07	1110		MW-17A			X									
6/6/07	1510		MW-13S			X									
6/6/07	1300		MW-06			X									
6/6/07	1430		MW-13A			X									
6/7/07	1610		Field Blank			X									
6/			Trip Blank			X							2		

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	6/7/07 1830		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

135

WATER SAMPLE LOG

PROJECT NAME: 0 NGRC	PREPARED	CHECKED
PROJECT NUMBER: 0.00 71333	BY: JPS DATE: 6/15/07	BY: TAR DATE: 7/1/07

SAMPLE ID: P2-Middle ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 912	DATE: 6/15/07
PURGE METHOD:	☒ PUMP bladder ☐ BAILER	
DEPTH TO WATER:	35.23 T/ PVC ✓	
DEPTH TO BOTTOM	_____ T/ PVC	
WELL VOLUME:	_____ ☐ LITERS ☐ GALLONS	
VOLUME REMOVED:	2 11 ☒ LITERS ☐ GALLONS	
COLOR:	lt. gray ODOR: _____	
TURBIDITY:	_____	
☐ NONE	☒ SLIGHT ☐ MODERATE ☐ VERY	
DISPOSAL METHOD	☐ GROUND ☐ DRUM ☒ OTHER	

SAMPLE	TIME: 1020 ✓	DATE: 6/15/07
PH:	7.23 SU ✓	CONDUCTIVITY: NR umhos/cm ✓
ORP:	5 mv ✓	DO: 1.17 mg/L ✓
TURBIDITY:	22.6 NTU ✓	
☐ NONE	☒ SLIGHT ☐ MODERATE ☐ VERY	
TEMPERATURE:	12.1 ✓ °C	OTHER: _____
COLOR:	clear ✓	ODOR: none
FILTRATE (0.45 um)	☒ YES ☐ NO	
FILTRATE COLOR:	clear	FILTRATE ODOR: none
QC SAMPLE:	☐ MS/MSD	☐ DUP- _____
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
912		7	B					35.23	INITIAL ✓
915	275	7.20	A	19	8.69		12.6	35.23	
920	225	7.18	D		10.47	296	12.4	35.23	
925	180	7.22		6	3.34		12.3	35.23	
930	180	7.20	M	12	2.40	196	12.8	35.23	
935	180	7.23	G	10	1.93		12.2	35.23	
940	180	7.23	C	9	1.82	152	12.2	35.23	
945	180	7.23	F	11	1.54	91.9	12.0	35.23	
950	180	7.23		9	1.36	62.7	12.2	35.23	
955	180	7.23		9	1.16		12.1	35.23	
1000	180	7.23		7	1.13	43.2	12.0	35.23 ✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED ✓ PRESERVATIVE CODES See COC for others

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	160Z	PI	B	☒ Y ☐ N	1	8oz	PI	A	☐ Y ☒ N
1	160Z	PI	C	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	PI	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD:	Fedex Courier	DATE SHIPPED:	6/15/07	AIRBILL NUMBER:	NA
COC NUMBER:	STL #1 CT #1	SIGNATURE:		DATE SIGNED:	7/27/07

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RMT®

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: ~~0~~ MSCR 6	PREPARED		CHECKED	
PROJECT NUMBER: ~~0.00~~ 7133.03	BY: TRS	DATE: 6/15/07	BY: [illegible]	DATE: 8/1/07

SAMPLE ID: P2-Moose

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10^{05}	180	7.22	Bad	7	1.10	32.9	12.3	25.23	
10^{10}	180	7.24	Meter	4	1.18		12.2	25.23	
10^{15}		7.23		5	1.17	22.6	12.1	25.23	~11 L

SIGNATURE: [signature]

DATE SIGNED: [signature]

REVISED 07/2005

WATER SAMPLE LOG

PROJECT NAME: 0	PREPARED	CHECKED
PROJECT NUMBER: 0.00	BY: JMS DATE: 6/15/07	BY: SHR DATE: 8/1/07

SAMPLE ID: P2-Stagecoach ✓ | WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1100	DATE: 6/15/07

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER

DEPTH TO WATER: 12.03 T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 0 ☒ LITERS ☐ GALLONS

COLOR: Clear - v. lt. grey ODOR: V. Sl. sulfur

TURBIDITY: _____

☒ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE ✓	TIME: ~~1133~~ 1140	DATE: 6/15/07

PH: 7.73 SU ✓ CONDUCTIVITY: 1087 umhos/cm

ORP: -40 mv DO: 0.46 mg/L ✓

TURBIDITY: 46.3 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 14.1 °C OTHER: _____

COLOR: V. lt. grey ODOR: V. Sl. sulfur

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1100								12.03	INITIAL ✓
1105	~200	8.10	972	-40	1.12		14.3	12.04	
1110	~200	7.81	1058	-35	0.63	123	13.9	12.04	
1115	~200	7.77	1075	-42	0.46		14.0	12.04	
1120	~200	7.76	1080	-45	0.48	123	14.0	12.04	
1125	~200	7.75	1083	-41	0.49	99.8	14.0	12.04	
1130	~200	7.74	1085	-39	0.47	53.6	14.0	12.04	
1135	~200	7.73	1087	-40	0.46	49.0	14.1	12.04	✓
1140	~200	7.73	1087	-40	0.46	46.3	14.1	12.04	~2L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES See COC for others

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16 oz	PL	B	☒ Y ☐ N	1	8 oz	PL	A	☐ Y ☒ N
1	16 oz	PL	C	☐ Y ☒ N	2	40 ml	VOA	E	☐ Y ☒ N
1	8 oz	PL	A	☐ Y ☒ N	3	40 ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex Courier DATE SHIPPED: 6/15/07 AIRBILL NUMBER: NA

COC NUMBER: STL #1 CT #1 SIGNATURE: [signature] DATE SIGNED: 7/31/07

WATER SAMPLE LOG

PROJECT NAME: DMSCRD	PREPARED	CHECKED
PROJECT NUMBER: ~~0.00~~ 7133.03	BY: JRS DATE: 6/15/07	BY: JAS DATE: 8/1/07

SAMPLE ID: PZ-Dyer ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1235	DATE: 6/15/07	SAMPLE	TIME: 1315 ✓	DATE: 6/15/07

PURGE METHOD: ☒ PUMP _____ ☐ BAILER _____

DEPTH TO WATER: 1.61 T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 8 ☒ LITERS ☐ GALLONS

COLOR: ▽ ODOR: none

TURBIDITY: gray-brown

☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.41 SU ✓ CONDUCTIVITY: 810 ✓ umhos/cm

ORP: -8 mv ✓ DO: 0.62 mg/L ✓

TURBIDITY: 1000 NTU ✓

☐ NONE ☐ SLIGHT ☒ MODERATE ☒ VERY

TEMPERATURE: 15.8 ✓ °C OTHER: _____

COLOR: gray-br ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1235 ✓	~200							1.61	✓ INITIAL
1240	~200	7.49	774	-5	0.99	1000	14.5	1.54	
1245 ✓	~200	7.43	801	-7	0.42	1000	15.3		
1250	~200	7.40	809	-6	0.47	893	15.6	1.64	
1255	~200	7.41	806	-7	0.49	1000	15.7	1.63	
1300 ✓	~200	7.41	807	-8	0.58	1000	15.6	1.64	
1305 ✓	~200	7.41	807	-9	0.60	1000	15.7	1.64	
1310 ✓	~200	7.41	808	-8	0.61	1000	15.7	1.64	
1315 ✓	~200	7.41	810	-8	0.62	1000	15.8	1.64	~8L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES See COC for others — A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1602	PI	B	☒ Y ☐ N	1	802	PI	A	☐ Y ☒ N
1	1602	PI	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	802	PI	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex/Courier	DATE SHIPPED: 6/15/07	AIRBILL NUMBER: NA
COC NUMBER: SJL #1 CTM1	SIGNATURE: [signature]	DATE SIGNED: 7/31/07

WATER SAMPLE LOG

PROJECT NAME: 0 MSCRG	PREPARED	CHECKED
PROJECT NUMBER: 0.00 7133.03	BY: JDS DATE: 6/15/07	BY: DATE:

SAMPLE ID: MW-Dyer ✓ WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1400	DATE: 6/15/07

PURGE METHOD: ☒ ~~PUMP~~ Bladder ☐ BAILER _____

DEPTH TO WATER: 6.78 ☑ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 5 ☒ LITERS ☐ GALLONS

COLOR: lt grey ODOR: none

TURBIDITY: ~~lt grey~~

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 1445 ✓	DATE: 6/15/07

PH: 7.42 SU ✓ CONDUCTIVITY: 748 umhos/cm

ORP: -8 mv DO: 2.47 mg/L ✓

TURBIDITY: 14.9 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 14.9 18.4 °C OTHER: _____

COLOR: lt grey ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1400								6.78	INITIAL ✓
1405	~180	7.44	737	-6	1.31	47.0	18.5	6.35	
1410	~180	7.41	740	-6	1.22		18.7	6.79	
1415	~100	7.40	745	-7	1.23	31.5	18.5	6.84	
1421	~100	7.40	748	-8	2.32		18.5	6.89	
1425	~80	7.40	747	-8	2.26	21.9	18.6	6.91	
1430	~80	7.41	747	-8	2.34		18.4	6.89	
1435	~80	7.41	747	-8	2.42	15.8	18.6	6.87	
1440	~80	7.42	748	-8	2.47	14.9	18.4	6.83	
1445	~80	7.42	748	-8	2.47	14.9	18.4	6.83	~5L ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: See COC for others

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	1602	PI	B	☒ Y ☐ N	1	8oz	PI	A	☐ Y ☒ N
1	1602	PI	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	PI	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex/Courier	DATE SHIPPED: 6/15/07	AIRBILL NUMBER: NA
COC NUMBER: STL# CT#1	SIGNATURE:	DATE SIGNED: 7/3/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: Ø/NSGRD	PREPARED		CHECKED	
PROJECT NUMBER: ~~0.00~~ 7133-03	BY: JRG	DATE: 6/15/07	BY: JAR	DATE: 8/1/07

SAMPLE ID: PW-A-Vitramo — WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1510	DATE: 6/15/07	SAMPLE	TIME: 1520	DATE: 6/15/07

PURGE METHOD: ☐ PUMP ☐ BAILER N/A	PH: 8.02 SU; CONDUCTIVITY: 1032 umhos/cm; ORP: -22 mv; DO: 2.73 mg/L
DEPTH TO WATER: Artesian T/ PVC ✓	TURBIDITY: 39.4 NTU
DEPTH TO BOTTOM _____ T/ PVC	☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS	TEMPERATURE: 14.2 °C; OTHER:
VOLUME REMOVED: 10+ ☒ LITERS ☐ GALLONS	COLOR: Clear; ODOR: Sl. Sulfur
COLOR: none; ODOR: Sulfur	FILTRATE (0.45 um) ☒ YES ☐ NO
TURBIDITY:	FILTRATE COLOR: clear; FILTRATE ODOR: none
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QC SAMPLE: ☐ MS/MSD ☐ DUP-
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER	COMMENTS: Field Blank Taken

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1520	>1000	8.02	1032	-22	2.73	39.4	14.2	Artesian	INITIAL
							Field Blank Taken @ This Location		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES See COC for others

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40mL	VOA	E	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40mL	VOA	E	☐ Y ☒ N

SHIPPING METHOD:	Fedex / Courier	DATE SHIPPED:	6/15/07	AIRBILL NUMBER:	NA
COC NUMBER:	STL #1 CT #1	SIGNATURE:	[signature]	DATE SIGNED:	7/31/07

WATER SAMPLE LOG

PROJECT NAME: ~~8~~ MSGRG	PREPARED	CHECKED
PROJECT NUMBER: ~~000~~ 7133.03	BY: JRS DATE: 6/15/07	BY: TMR DATE: 8/1/07

SAMPLE ID: Field Blank ✓ WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☐ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ OTHER _____

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME:	DATE:

PURGE METHOD: ☐ PUMP _____ ☐ BAILER _____

DEPTH TO WATER: _____ T/ PVC

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☐ OTHER

SAMPLE	TIME: 15.30	DATE: 6/15/07

PH: _____ SU CONDUCTIVITY: _____ umhos/cm

ORP: _____ mv DO: _____ mg/L

TURBIDITY: _____ NTU

☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: _____ °C OTHER: _____

COLOR: _____ ODOR: _____

FILTRATE (0.45 um) ☑ YES ☐ NO

FILTRATE COLOR: Clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
		DI water Taken @ PW. A. Vitrano – Farmers Spraying field next door to the A. Vitrano property							INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES See COC for others

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	PL	B	☑ Y ☐ N	1	8oz	PL	A	☐ Y ☑ N
1	16oz	PL	C	☐ Y ☑ N	2	40ml	VOA	E	☐ Y ☐ N
1	8oz	PL	A	☐ Y ☑ N	3	40ml	VOA	E	☐ Y ☐ N

SHIPPING METHOD:	Fedex/Courier	DATE SHIPPED:	6/15/07	AIRBILL NUMBER:	NA
COC NUMBER:	STL #1 C+H #1	SIGNATURE:		DATE SIGNED:	7/31/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: ø MSORB	PREPARED	CHECKED
PROJECT NUMBER: 0.00 7133.03	BY: JRS 0 DATE: 6/15/07	BY: BH DATE: 8/1/07

SAMPLE ID: MW-Moeller ✓ WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

PURGING	TIME: 1535	DATE: 6/15/07	SAMPLE	TIME: 1545 ✓	DATE: 6/15/07

PURGE METHOD: ☐ PUMP ☐ BAILER N/A

DEPTH TO WATER: Artesian T/ PVC ✓

DEPTH TO BOTTOM _____ T/ PVC

WELL VOLUME: _____ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 10+ ☒ LITERS ☐ GALLONS

COLOR: Clear ODOR: none

TURBIDITY: _____

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

PH: 7.54 ✓ SU CONDUCTIVITY: 1452 ✓ umhos/cm

ORP: -17 ✓ mv DO: 1.44 ✓ mg/L

TURBIDITY: 40.6 ✓ NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.3 ✓ °C OTHER: _____

COLOR: Clear ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: clear FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1545	>1000	7.54	1452	-17	1.44	40.6	13.3	Artesian	INITIAL ✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	Pl	B	☒ Y ☐ N	1	8oz	Pl	A	☐ Y ☒ N
1	16oz	Pl	C	☐ Y ☒ N	2	40ml	VOA	F	☐ Y ☒ N
1	8oz	Pl	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex/Courier DATE SHIPPED: 6/15/07 AIRBILL NUMBER: NA

COC NUMBER: STL#1 CT#1 SIGNATURE: [signature] DATE SIGNED: 7/31/07

WATER SAMPLE LOG

PROJECT NAME: 6 MSGR6	PREPARED	CHECKED
PROJECT NUMBER: 0.00 7133.03	BY: JBG DATE: 6/15/07	BY: DATE:

SAMPLE ID: PW-Majestic ✓ WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: ~1535 20+ min	DATE: 6/15/07
PURGE METHOD: ☐ PUMP ☐ BAILER	N/A	
DEPTH TO WATER: Artesian T/ PVC		
DEPTH TO BOTTOM _____ T/ PVC		
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS		
VOLUME REMOVED: 50+ ☐ LITERS ☒ GALLONS		
COLOR: Clear	ODOR: none	
TURBIDITY: _____		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER		

SAMPLE	TIME: 1600 ✓	DATE: 6/15/07
PH: 7.42 ✓ SU	CONDUCTIVITY: 1203 ✓ umhos/cm	
ORP: -16 ✓ mv	DO: 5.50 mg/L ✓	
TURBIDITY: 18.1 ✓ NTU		
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
TEMPERATURE: 16.6 ✓ °C	OTHER:	
COLOR: Clear	ODOR: none	
FILTRATE (0.45 um) ☒ YES ☐ NO		
FILTRATE COLOR: Clear	FILTRATE ODOR: none	
QC SAMPLE: ☐ MS/MSD	☐ DUP- _____	
COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1600	31000	7.42	1203	-16	5.50	18.1	16.6		INITIAL
	Sample from basement tap - owners hand well								
	purging for 20+ min								

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10 D.O.: +/- 10 TURB: +/- 10 ORP </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
1	16oz	PL	B	☒ Y ☐ N	1	8oz	PL	A	☐ Y ☒ N
1	16oz	PL	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☒ N
1	8oz	PL	A	☐ Y ☒ N	3	40ml	VOA	E	☐ Y ☒ N

SHIPPING METHOD: Fedex/Courier	DATE SHIPPED: 6/15/07	AIRBILL NUMBER: NA
COC NUMBER: STL #1 CT #1	SIGNATURE: [signature]	DATE SIGNED: 7/31/07

TRENT **STL**

WASTE MANAGEMENT
CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print)	Signature:
J. Schaephoster	[signature]
Site Name: MSGRG	Spec Request: AC 72755
Site Location: Muskego, WI	Event Name: Phase II EG&MP

INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)
INDICATE CONTAINER BY USING KEY BELOW

				MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	TAL	Ammonia/TKN	TALK	Total CN	Bromide/Iodide	018/Deuterium-Zinc Reduction	Additional Analysis/Remarks
	PW-Mageske	6/15/17	1600	W	G			X	X		-	-	X	X	X	X				
	PW-Moeller		1545					X	X				X	X	X	X				See Carduco Fox
	Field Blank		1530					X	X				X	X	X	X				w/ Questions
	PW-A. Vitrano		1520					X	X				X	X	X	X	X	X	X	716-504-9844
	MW-Dyer		1445					X	X				X	X	X	X				
	PZ-Dyer		1315					X	X				X	X	X	X				
	PZ-Stagecoach		1140					X	X				X	X	X	X				
	PZ-Moose		1020					X	X				X	X	X	X				

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[signature]	RMT	6/15/17	1930				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS
Proj # NYSA586233

Courier:

Bill of Lading:

STL-8219 (1002)

Rev. 3/2006

Chain of Custody

Page 1 of 1

Company: RMT
Project Contact: Ken Quinn
Telephone: 608-831-4444
Project Name: MSO26
Project Number: 7133.03
Project Location: Muskego, WI
Sampled By: J. Schoephoerster

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges:
24 hr 200% 2-3 days 100% 4-9 days 50%,
subject to change without notice.

Lab Use Only
Place Header Sticker Here.

Mail Report To: Ken Quinn
Company: RMT
Address: 744 Heartland Trail
City/State/Zip: Madison, WI

Invoice To: Accts Rec.
Company: RMT
Address: Same
City/State/Zip:

PO No.

Client Special Instructions:
See Pat Lo or Ken Quinn (RMT) w/ Questions

Landfill License Number:

Collection Date	Collection Time	Grab/ Comp	Sample ID Description	WDNR Well ID #	**Matrix:	VOC 8260 Low Level							Total # of Containers	Preservation*	Lab ID #
			Filt? Y/N			N									
			Fill in Spaces with Bottles per Test												
6/15/07	1020		PZ-Moose		GW	X							3	B	
	1140		PZ-Stagecoach			X									
	1315		PZ-Dyer			X									
	1445		MW-Dyer			X									
	1520		PW-A. Vitrano			X									
	1530		Field Blank			X									
	1545		PW-Mosher			X									
	1606		PW-Magsko			X									
—	—		Trip Blank			X							2		

Relinquished By:	Date/Time	Relinquished By:	Date/Time
	6/16/07 11:40		
Received by:	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

**Matrix
S-Soil A-Air Sl-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

* Preservation Code
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/18/07	BY: THC DATE: 7-18-07

SAMPLE ID: MW05 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 5 50	DATE: 6/18/07	SAMPLE	TIME: 18 10	DATE: 6/19/07
PURGE METHOD: ☒ PUMP Ded Bladder ☐ BAILER			PH: 7.25 SU	CONDUCTIVITY: 1330 umhos/cm	
			ORP: -3 mv	DO: 0.42 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 6.97 NTU		
DEPTH TO BOTTOM: — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.7 °C	ODOR: None	
VOLUME REMOVED: 7.5 ☒ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: —	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES	☒ NO	
TURBIDITY:			FILTRATE COLOR: —	FILTRATE ODOR: —	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP: —	
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1750	300mL/min	7.28	1295	-2	2.15	—	12.0	—	INITIAL
1755	900mL/min	7.26	1321	-3	0.63	6.23	11.8	—	1.5L
1800	↓	7.25	1332	-4	0.47	11.3	11.8	~	3.5
1805		7.25	1333	-2	0.41	9.13	11.9	—	5.5
1810		7.25	1336	-3	0.42	6.97	11.7	—	7.5
		✓	✓	✓	✓		✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40mL	VOA	A	☐ Y ☑ N					☐ Y ☐ N
1	1L	pl	A	☐ Y ☑ N					☐ Y ☐ N
1	80z	pl	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Courier/FedEx	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404567
COC NUMBER: CT / STL	SIGNATURE: Nathaniel P. Keller	DATE SIGNED: 6/20/07

24/9C

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REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/18/07	BY: THC DATE: 7-18-07

SAMPLE ID: MW07 WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1605	DATE: 6/18/07	SAMPLE	TIME: 1625	DATE: 6/18/07

PURGE METHOD: ☒ PUMP Red Disp. ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 10.25 ☑ LITERS ☐ GALLONS

COLOR: Colorless ODOR: None

TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.27 SU CONDUCTIVITY: 1358 umhos/cm

ORP: 9 mv DO: 0.43 mg/L

TURBIDITY: 3.17 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.7 °C ODOR: None

COLOR: Colorless ~~ODOR:~~

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ FILTRATE ODOR:

QC SAMPLE: ☐ MS/MSD ☒ DUP 01

~~COMMENTS:~~

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1605	450	7.28	1332	4	1.09	7.28	13.0	—	INITIAL
1610	600 mL/min	7.26	1331	7	0.56	2.29	12.5		2.25 L
1615	↓	7.25	1349	9	0.50	9.51	12.0		5.25
1620		7.26	1353	10	0.44	4.31	12.1		8.25
1625		7.27	1358	9	0.43	3.17	11.7		10.25
~~1630~~		✓	✓	✓	✓		✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ___ ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40 ml	VOA	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	pl	A	☐ Y ☑ N					☐ Y ☐ N
1	8 oz	↓	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Courier / FedE	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404577 496
COC NUMBER: CT / STL	SIGNATURE: Nathaniel R Keller	DATE SIGNED: 6/20/07

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REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/18/07	BY: THC DATE: 7-18-07

SAMPLE ID: MW13S WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1110	DATE: 6/18/07	SAMPLE	TIME: 1135	DATE: 6/18/07

PURGE METHOD: ☒ PUMP Bed Bladder ☐ BAILER

DEPTH TO WATER: 19.18 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 9.75 ☒ LITERS ☐ GALLONS

COLOR: V. Hwown ODOR: None

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.44 SU CONDUCTIVITY: 691 umhos/cm

ORP: 16 mv DO: 6.04 mg/L

TURBIDITY: 6.12 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.5 °C ODOR: None

COLOR: Colorless ODOR: —

FILTRATE (0.45 um) ☐ YES ☒ NO

~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~

~~QC SAMPLE:~~ ☐ MS/MSD ☐ DUP-

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1110	350 ml/min	7.52	688	11	6.19	59.2	12.2	19.18	INITIAL
1115	400 ml/min	7.47	685	14	6.05	37.5	12.2	19.18	1.75
1120		7.46	686	16	6.18	14.6	12.3	19.18	3.75
1125		7.44	689	17	6.00	11.2	12.8	19.18	5.75
1130		7.48	692	19	6.11	8.41	12.7	19.18	7.75
1135		7.44	691	16	6.04	6.12	12.5	19.18	9.75
		✓	✓	✓	✓		✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40 ml	gl	A	☐ Y ☑ N					☐ Y ☐ N
1	8oz	pl	B	☐ Y ☑ N					☐ Y ☐ N
1	1L	pl	A	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/Courier	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404577496
COC NUMBER: CT / STL	SIGNATURE: [signature]	DATE SIGNED: 6/20/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/18/07	BY: THC DATE: 7-18-07

SAMPLE ID: MW13A WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1055	DATE: 6/18/07 6/19/07	SAMPLE	TIME: 1405	DATE: 6/19/07

PURGE METHOD: ☒ PUMP Ded Bladder ☐ BAILER

DEPTH TO WATER: 19.12 T/ PVC / 19.08

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 116 ☒ LITERS ☐ GALLONS

COLOR: Brown/ltbrown ODOR: None

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.50 SU CONDUCTIVITY: 724 umhos/cm

ORP: 120 mv DO: 0.16 mg/L

TURBIDITY: 128 NTU

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

TEMPERATURE: 12.0 °C ODOR: None

COLOR: colorless ODOR: _____

FILTRATE (0.45 um) ☐ YES ☒ NO

FILTRATE COLOR: _____ FILTRATE ODOR: _____

QC SAMPLE: ☐ MS/MSD ☐ DUP: _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1330	400mL	No	Readings	attached			flow through		INITIAL
1335		7.47	709	62	0.23	70.8	11.6	19.08	+2L
1340		7.46	716	100	0.18	72.1	12.0	19.09	+4L
1345		7.47	720	104	0.17	100	12.0	↓	+6L
1350	↓	7.48	721	110	0.17	141	12.0	↓	+8L
~~1355~~	↓				0				✓
1400		7.50	722	114	0.17	161	12.0	19.08	+12L
1405		7.50	724	120	0.16	128	10.0	19.08	+14L
		✓	✓	✓	✓		✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40mL		A	☐ Y ☑ N					☐ Y ☐ N
1	1L		A	☐ Y ☑ N					☐ Y ☐ N
1	80z		B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Courier/FedEx DATE SHIPPED: 6/19 & 6/20/07 AIRBILL NUMBER: 853404577496

COC NUMBER: CT/STL SIGNATURE: Nathaniel Keller DATE SIGNED: 6/20/07

REVISED 01/2007

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/19/07	BY: TH DATE: 7/8/07

SAMPLE ID: MW15A — WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 830	DATE: 6/19/07	SAMPLE	TIME: 855	DATE: 6/19/07
PURGE METHOD: ☒ PUMP Red. Bladder ☐ BAILER			PH: 6.94 SU	CONDUCTIVITY: 1286 umhos/cm	
			ORP: 57 mv	DO: 6.52 mg/L	
DEPTH TO WATER: 25.87 ~~T~~ PVC			TURBIDITY: 24.8 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.5 °C	ODOR: None	
VOLUME REMOVED: 10 ☑ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: ____	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE:~~ ☐ MS/MSD	☐ DUP- ____	
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			~~COMMENTS:~~		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
833	375 mL/min	7.09	1276	95	2.11	17.3	11.8	25.87	INITIAL
838	400 mL/min	6.92	1283	108	1.08	30.7	11.5	25.89	~1.25 L
843	↓	6.92	1285	116	0.55	36.0	11.6	25.89	3.75
848		6.92	1286	64	0.56	29.7	11.6	25.88	~6 L
853		6.93	1286	59	0.57	25.3	11.6	25.88	~8 L
858		6.94	1286	57	0.52	24.8	11.5	25.87	~10 L
		✓	✓	✓ dl	✓		✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40L	VOA	A	☐ Y ☐ ~~N~~					☐ Y ☐ N
1	1L	gl	A	☐ Y ☐ ~~N~~					☐ Y ☐ N
1	8oz	↓	B	☐ Y ☐ ~~N~~					☐ Y ☐ N

SHIPPING METHOD: Courier/FedEx	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404577 496
COC NUMBER: CT/STL	SIGNATURE: [signature]	DATE SIGNED: 6/20/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: NRK	DATE: 6/19/07	BY: THL	DATE: 7-18-07

SAMPLE ID: E135 A — WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12 45	DATE: 6/19/07	SAMPLE	TIME: 13 15	DATE: 6/19/07
PURGE METHOD: ☒ PUMP Ded Bladder ☐ BAILER			PH: 6.88 SU	CONDUCTIVITY: 1199 umhos/cm	
			ORP: 89 mv	DO: 0.55 mg/L	
DEPTH TO WATER: ~~39.50~~ T/ PVC 39.48			TURBIDITY: 32.7 NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.0 °C	ODOR: None	
VOLUME REMOVED: 8.5 ☑ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: —	
COLOR: V. lt brown ODOR: —			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ ~~MS/MSD~~ ☐ ~~DUP~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11 50	300	6.89	1177	74	6.60	56.2	13.5	39.50	INITIAL 1L
11 55		6.89	1186	94	0.47	56.1	13.8	39.50	2.5L
13 00		6.89	1193	90	0.50	45.9	13.9	39.50	4.0L
13 05		6.88	1191	96	0.51	27.2	14.0	39.50	5.5L
13 10		6.88	1199	99	0.50	23.7	14.0	39.50	7L
13 15		6.88	1199	99	0.55	32.7	14.0	39.50	8.5
		✓	✓	✓	✓		✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40mL	VOA	A	☐ Y ☒ N					☐ Y ☐ N
1	1L	pl	A	☐ Y ☒ N					☐ Y ☐ N
1	8oz	↓	B	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/Courier	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404577496
COC NUMBER: CT Labs/STL	SIGNATURE: Matthew R Keller	DATE SIGNED: 6/20/07

REVISED 01/2007

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 6/18/07	BY: THC DATE: 7-18-07

SAMPLE ID: E141A WELL DIAMETER: ☑ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☑ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☑ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: ~~1430~~ 1000	DATE: 6/18/07	SAMPLE	TIME: 1030	DATE: 6/19/07
PURGE METHOD: ☑ PUMP Ded Bladder ☐ BAILER			PH: 6.78 SU	CONDUCTIVITY: 1272 umhos/cm	
			ORP: 12 mv	DO: 0.87 mg/L	
DEPTH TO WATER: 31.13 T/ PVC			TURBIDITY: 3.61 NTU		
DEPTH TO BOTTOM: NM T/ PVC			☑ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.4 °C	ODOR: None	
VOLUME REMOVED: 13 ☒ LITERS ☐ GALLONS			COLOR: Colorless	ODOR:	
COLOR: colorless w/ants	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: Ants			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1010 ~~400~~	400ml/min	6.71	1298	10	2.00	4.51	12.5	31.13	~~INITIAL~~ 5L (1.5 gal)
1015	↓	6.78	1269	12	1.91	3.89	12.5	31.13	7L
1020		6.78	1285	10	0.81	2.16	12.6	31.13	9L
1025		6.80	1264	11	0.92	2.79	12.5	31.13	11L
1030	↓	6.78	1272	12	0.87	3.61	12.4	13.13	13L
		✓	✓	✓	✓		✓	✓	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % ~~TURB: +/- 10 %~~ ~~or <= 5~~ TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
1	40mL	VOA	A	☐ Y ☑ N					☐ Y ☐ N
1	1 L	pl	A	☐ Y ☑ N					☐ Y ☐ N
1	80z	pl	B	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Courier/FedEx	DATE SHIPPED: 6/19 & 6/20/07	AIRBILL NUMBER: 853404577496
COC NUMBER: CT Labs / STL	SIGNATURE: Nathaniel Kelly	DATE SIGNED: 6/20/07

REVISED 01/2007

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SEVERN TRENT **STL**

WASTE MANAGEMENT CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print): Nate Keller	Signature: Nathaniel R Keller
Site Name: Muskego LF	Spec Request: AC
Site Location: Muskego, WI	Event Name: EGM Phase II

STL Sample No	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC	O18 + Deuterium	Bromide + Iodide					Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL) / INDICATE CONTAINER BY USING KEY BELOW																
	MW 13S	6/18/07	1135		G									1	1					
	MW 13A	6/19/07	14		↓									↓	↓					
	MW 15A	6/19/07	8 58		↓									↓	↓					
	MW 05	6/18/07	18 10		↓									↓	↓					
	MW 07	↓	16 25		↓									↓	↓					
	E 141A	↓	10 30		↓									↓	↓					
	E 135A	6/19/07	13 15		↓									↓	↓					
	Dup 01	6/18/07	—		↓									↓	↓					

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Nathaniel R Keller	KMT, Inc	6/19/07	16 30				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservation Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS	Courier: FEP EX
	Bill of Lading: 8534 0457 7496

Signed & Dated Custody Seal

STL-8219 (1002)

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Rev. 3/2006

Chain of Custody

Page _____ of _____

Company: RMT Inc
Project Contact: Nate Keller
Telephone: 603-219-1687
Project Name: Muskego LF
Project Number: 7141.01
Project Location: Muskego, WI
Sampled By: N. Keller

Regulatory Program:
UST RCRA SDWA NPDES
Solid Waste Other _____

CTLaboratories

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Turnaround Time
Normal RUSH*
Date Needed _____

*Notify Lab prior to sending in RUSH samples. Surcharges: 24 hr 200% 2-3 days 100% 4-9 days 50%, subject to change without notice.

Lab Use Only
Place Header Sticker Here:

Mail Report To:
Company: RMT Inc
Address: 7141 Heartland Tr
City/State/Zip: Madison, WI 53717

Invoice To:
Company:
Address:
City/State/Zip:

PO No.

Client Special Instructions:

Landfill License Number:

Filt? Y/N: N

Collection Date	Collection Time	Grab/Comp	Sample ID Description	WDNR Well ID #	**Matrix:	8260B Rock Cor								Total # of Containers	Preservation*	Lab ID #
6/19/07	11:35	G	MW13S		GW										B	
6/19/07	14:05		MW13A													
6/19/07	8:58		MW15A													
6/19/07	13:10		MW05													
	16:35		MW07													
	10:30		E141A													
6/19/07	13:15		E135A													
6/18/07	—		Nup 01													
			Trip Blank													

Fill in Spaces with Bottles per Test

*** Preservation Code**
A=None B=HCL
C=H2SO4 D=HNO3
E=Encore F=Methanol
G=NaOH
O=Other _____

Relinquished By:	Date/Time	Relinquished By:	Date/Time
[signature]	6/20/07 10:00		
Received by: [signature] To Courier	Date/Time	Received for Laboratory by:	Date/Time

Ice Present Yes No
Temperature _____
Cooler # _____

****Matrix**
S-Soil A-Air SI-Sludge M-Misc Waste
GW-Groundwater SW-Surface Water
WW-Wastewater DW-Drinking Water

Custody Signed & Dated Tape

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: [illegible] DATE: 8/2[illegible]/07

SAMPLE ID: MW01 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1015	DATE: 7/10/07	SAMPLE	TIME: 1100	DATE: 7/10/07

PURGE METHOD: ☒ PUMP Ded. bladder ☐ BAILER

DEPTH TO WATER: 20.61 T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 14.5 ☒ LITERS ☐ GALLONS

COLOR: Colorless ODOR: None

TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.24 SU CONDUCTIVITY: 1666 umhos/cm

ORP: 2 mv DO: 0.67 mg/L

TURBIDITY: 292 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 14.6 °C ODOR: None

COLOR: Colorless ODOR: —

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1025	400	7.39	1622	8 mV	2.99	—	13.8	20.61	INITIAL
1030	|	7.21	1640	0 mV	1.82	—	14.5	20.61	4 L
1035	|	7.22	1635	0 mV	1.15	19.3	15.3	20.61	6 L
1040	|	7.23	1654	0 mV	0.87	18.8	15.3	20.61	8 L
1045	300	7.23	1657	2 mV	0.65	9.80	14.8	20.61	10 L
1050	↓	7.24	1654	1	0.74	4.32	14.5	20.61	11.5
1055		7.24	1665	2	0.63	3.35	14.8	20.61	13.0
1100	↓	7.24	1666	2	0.67	2.92	14.6	20.61	14.5

2 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8 oz	pl	A	☐ Y ☒ N
2	40ml	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	16 oz	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	↓	↓	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8624 6402 6600 1
COC NUMBER: Fed Ex STL	SIGNATURE: [signature]	DATE SIGNED: 7/17/07

8619 3194 5821

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: LJB DATE: 8/24/07

SAMPLE ID: MW01A WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 11 30	DATE: 7/10/07	SAMPLE	TIME: 12 00	DATE: 7/17/07

PURGE METHOD: [X] PUMP Ded Bladder [ ] BAILER

DEPTH TO WATER: 19.54 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 9.5 [ ] LITERS [ ] GALLONS

COLOR: Colorless ODOR: None

TURBIDITY: [X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.12 SU CONDUCTIVITY: 1395 umhos/cm

ORP: -2 mv DO: 0.81 mg/L

TURBIDITY: 1.58 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 14.2 °C ODOR: None

COLOR: Colorless ODOR: —

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: Colorless FILTRATE ODOR: None

QC SAMPLE: [ ] MS/MSD [X] DUP 04

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11 40	400	7.28	1320	-6	0.98	—	13.6	19.54	INITIAL 1.5L
11 45		7.13	1383	-4	0.96	—	14.2	19.54	3.5L
11 50		7.11	1390	-3	0.79	1.88	14.0	19.54	5.5
11 55		7.12	1393	-2	0.77	1.53	14.1	19.54	7.5
12 00		7.12	1395	-2	0.81	1.58	14.2	19.54	9.5
~~12 05~~									
~~12 10~~									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40 mL	VOA	E	[ ] Y [✓] N	4	8oz	pl	A	[ ] Y [X] N
4	40ml	gl	E	[ ] Y [X] N					[ ] Y [ ] N
2	16oz	pl	B	[X] Y [ ] N					[ ] Y [ ] N
2	↓	↓	C	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8624642660010
COC NUMBER: CT-GTL	SIGNATURE: [signature]	DATE SIGNED: 7/17/07

8619
5194
157
5821

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: LSM DATE: 8/29/07

SAMPLE ID: MW01B WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 915	DATE: 7/10/07	SAMPLE	TIME: 945	DATE: 7/10/07
PURGE METHOD: ☒ PUMP Bladder ☐ BAILER			PH: 8.13 SU	CONDUCTIVITY: 289 umhos/cm	
			ORP: -1 mv	DO: 0.46 mg/L	
DEPTH TO WATER: 20.38 T/ PVC			TURBIDITY: 0.44 NTU		
DEPTH TO BOTTOM: ____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.6 °C	ODOR:	
VOLUME REMOVED: 9.5 ☒ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: Colorless	FILTRATE ODOR: None	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
917	300 mL/m	8.02	287	-7	1.59	—	13.2	20.91	INITIAL 0.5L
920	|	8.08	288	-5	0.84	—	14.2	20.84	2.0
925	|	8.07	286	-3	0.68	3.09	14.7	20.78	3.5
930	|	8.12	286	-2	0.59	1.83	14.4	20.74	5.0
935		8.13	287	-1	0.49	—	14.5	20.73	6.5
940		8.15	290	-2	0.48	0.46	14.6	20.73	8.0
945		8.13	289	-1	0.46	0.44	14.6	20.73	9.5L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	80z	pl	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	160z	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	160z	pl	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8624 9266 0041	8619 3194 5821
COC NUMBER: CTESTL	SIGNATURE: Nathaniel Kelly	DATE SIGNED: 7/17/07	

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/11/07	BY: CJM DATE: 8/24/07

SAMPLE ID: MW05 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 950	DATE: 7/11/07	SAMPLE	TIME: 1045	DATE: 7/11/07
PURGE METHOD: ☒ PUMP Ded Bladder ☐ BAILER			PH: 7.25 SU	CONDUCTIVITY: 1273 umhos/cm	
			ORP: 49 mv	DO: 0.00 mg/L	
DEPTH TO WATER: NM T/ PVC			TURBIDITY: 168 NTU		
DEPTH TO BOTTOM — T/ PVC			☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.0 °C	ODOR: None	
VOLUME REMOVED: 12 ☒ LITERS ☐ GALLONS			COLOR: V. lt gray/brn	ODOR: —	
COLOR: lt brown/gray ODOR: None			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: colorless	FILTRATE ODOR: None	
☐ NONE ☒ SLIGHT ☒ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☒ DUP 01		
DISPOSAL METHOD: ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS: —		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
953	300mL/min	7.24	1252	157	0.55	—	12.4	—	INITIAL
955		7.24	1264	162	0.53	—	12.3	—	3.5
1000	200mL/min	7.25	1258	156	0.00	38.5	12.3	—	5.0
1005	↓	7.25	1260	137	0.00	72.5	12.3	—	6.0
1010		7.26	1267	139	0.00	105	11.9	—	7.0
1015		7.26	1271	130	0.00	137	11.8	—	8.0
1020		7.26	1270	134	0.00	195	11.7	—	9.0
1025		7.26	1271	64	0.00	254	11.7	—	10.0
1030		7.24	1273	56	0.00	237	11.7	—	11.0
1035	✓	7.26	1275	52	0.00	183	11.7	—	12.0

2.0 L

10 Pictures Stopped working Equals 600 all times

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40 mL	VOA	E	☐ Y ☑ N	2	8 oz	pl	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	1607	pl	B	☑ Y ☐ N					☐ Y ☐ N
1	1607	pl	C	☐ Y ☑ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex Ground DATE SHIPPED: 7/11/07 & 7/16 AIRBILL NUMBER: 8619 3194 5810

COC NUMBER: CT-STL SIGNATURE: [signature] DATE SIGNED: 7/17/07

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RMT

WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/17/07	BY: LJS DATE: 8/24/07

SAMPLE ID: MW05 (cont.)

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1040		7.25	1271	46	0.00	180	11.7	—	13.0
1045		7.25	1273	49	0.00	168	12.0	—	14.0
~~1050~~									~~15.0~~

SIGNATURE: Nathaniel R Kelly DATE SIGNED: 7/17/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: [illegible] DATE: 8/24/07

SAMPLE ID: MW02 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 7 50	DATE: 7/10/07	SAMPLE	TIME: 8 25	DATE: 7/10/07
PURGE METHOD: ☒ PUMP Ded. Bladder ☐ BAILER			PH: 7.07 SU	CONDUCTIVITY: 942	umhos/cm
			ORP: -0 mv	DO: 0.75	mg/L
DEPTH TO WATER: 46.64 T/ PVC			TURBIDITY: 3-90 NTU		
DEPTH TO BOTTOM NM T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.3 °C	ODOR: None	
VOLUME REMOVED: 9.0 ☒ LITERS ☐ GALLONS			COLOR: colorless	ODOR: —	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: colorless	FILTRATE ODOR: None	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~QC SAMPLE: ☐ MS/MSD ☐ DUP~~		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS: —		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8 00	300ml/min	7.03	925	194	-2	36.8	12.5	46.66	INITIAL
8 05		7.04	928	-1	1.33	17.7	12.5	46.65	3
8 10		7.06	935	0	0.91	12.5	12.3	46.66	4.5
8 15		7.08	939	0	0.82	—	12.4	46.66	6.0
8 20		7.07	941	0	0.77	6.11	12.2	46.65	7.5
8 25		7.07	942	-0	0.75	3.90	12.3	46.65	9.0L

1.5L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8 oz	pl	A	☐ Y ☒ N
2	40ml	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	1 liter	pl	B	☒ Y ☐ N					☐ Y ☐ N
↓	↓	↓	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 862642266001
COC NUMBER: CT-STL	SIGNATURE: [signature]	DATE SIGNED: 7/17/07

8619
3194
CR 21

REVISED 01/2007

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/1/07	BY: LJH DATE: 8/24/07

SAMPLE ID: MW07 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1250	DATE: 7/1/07	SAMPLE	TIME: 1325	DATE: 7/1/07

PURGE METHOD: ☒ PUMP Bladder ☐ BAILER

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 14.0 ☐ LITERS ☐ GALLONS

COLOR: colorless ODOR: None

TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 7.28 SU CONDUCTIVITY: 1335 umhos/cm

ORP: 126 mv DO: — mg/L

TURBIDITY: 0.27 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.5 °C ODOR: None

COLOR: colorless ODOR: —

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: None

QC SAMPLE: ☐ MS/MSD ☐ DUP- _____

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1250	400mL/m	7.39	1287	19	0.00	—	13.4	—	INITIAL
1255		7.31	1300	35	/	0.76	12.4	—	2.0
1300		7.28	1317	67	/	0.30	11.9	—	4.0
1305		7.28	1332	94	/	—	11.7	—	6.0
1310		7.28	1330	115	/	—	11.7	—	8.0
1315		7.28	1328	124	/	—	11.6	—	10.0
1320		7.29	1331	129	/	0.31	11.7	—	12.0
1325	↓	7.28	1335	126	/	0.27	11.5	—	14.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8oz	pl	H	☐ Y ☒ N
2	40ml	pl	E	☐ Y ☒ N					☐ Y ☐ N
1	16oz	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	1	1	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: FedEx Ground DATE SHIPPED: 7/1/07 7/2 AIRBILL NUMBER: 8619 3945 8810

COC NUMBER: CTESTL SIGNATURE: [signature] DATE SIGNED: 7/17/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/11/07	BY: LDB DATE: 8/24/07

SAMPLE ID: MW075 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1420	DATE: 7/11/07	SAMPLE	TIME: 1500	DATE: 7/11/07
PURGE METHOD: ☒ PUMP Ded. Bladder ☐ BAILER			PH: 7.62 SU	CONDUCTIVITY: 653 umhos/cm	
			ORP: 31 mv	DO: — mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: >1000 NTU		
DEPTH TO BOTTOM — T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.1 °C	ODOR:	
VOLUME REMOVED: 7.5 ☒ LITERS ☐ GALLONS			COLOR: Brown	ODOR: None	
COLOR: Brown	ODOR: None		FILTRATE (0.45 um) ☐ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS:		

Pulled w/ Waterra

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1423	200	7.68	650	24	0.25	>1000	14.9	—	INITIAL
1430		7.57	655	29	—	>1000	15.0	—	1.5L
1435		2.56	646	28	—	>1000	13.0	—	2.5
1440		7.60	654	29	—	>1000	13.1	—	3.5
1445		7.61	655	28	—	>1000	12.3	—	4.5
1450		7.61	655	30	—	>1000	12.3	—	5.5
1455		7.62	652	28	—	>1000	12.3	—	6.5
1500	↓	7.62	653	31	—	>1000	12.1	—	7.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8oz	pl	A	☐ Y ☒ N
2	40mL	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	1Lg	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	↓	↓	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex Ground DATE SHIPPED: 7/11/07 7/16/07 AIRBILL NUMBER: 8693194 5810

COC NUMBER: STLJCT SIGNATURE: Adrienne Kelly DATE SIGNED: 7/17/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/11/07	BY: LDM DATE: 5/24/07

SAMPLE ID: E130 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 8:05	DATE: 7/11/07

PURGE METHOD: ☒ PUMP Dedicated Bladder ☐ BAILER

DEPTH TO WATER: 22.54 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 11.5 ☐ LITERS ☐ GALLONS

COLOR: Colorless ODOR: —

TURBIDITY:

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

SAMPLE	TIME: 8:40	DATE: 7/11/07

PH: 7.12 SU CONDUCTIVITY: 1422 umhos/cm

ORP: 185 mv DO: 0.50 mg/L

TURBIDITY: 0.87 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 10.9 °C ODOR: None

COLOR: Colorless ODOR: —

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: None

QC SAMPLE: ~~☐ MS/MSD~~ ☐ DUP-

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O.* (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8:15	400 mL/min	7.05	1403	87	8.42	—	10.8	22.54	INITIAL 1.5L
8:20	↓	7.05	1410	134	1.67	—	10.8	22.54	3.5L
8:25		7.06	1413	162	0.73	—	10.8	22.54	5.5
8:30		7.08	1416	176	0.53	1.28	10.8	22.54	7.5
8:35	↓	7.11	1422	183	0.57	0.70	10.8	↓	9.5
8:40		7.12	1422	185	0.50	0.87	10.9	↓	11.5
8:45									

* DO Probe Bouncing several, no bubbles present

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8oz	pl	A	☐ Y ☒ N
1	16oz	pl	B	☐ Y ☐ N					☐ Y ☐ N
1	↓	↓	C	☐ Y ☒ N					☐ Y ☐ N
2	40mL	VOC	E	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex Ground DATE SHIPPED: 7/11/07 & 7/16/07 AIRBILL NUMBER: 861931945810

COC NUMBER: CT-STL SIGNATURE: Nathaniel R Feth DATE SIGNED: 7/17/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: LJB DATE: 8/24/07

SAMPLE ID: E137A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1355	DATE: 7/10/07	SAMPLE	TIME: 1440	DATE: 7/10/07

PURGE METHOD: ☒ PUMP Ded. Bladder ☐ BAILER

DEPTH TO WATER: 24.04 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 13.5 ☐ LITERS ☐ GALLONS

COLOR: lt orange ODOR:

TURBIDITY: ☐ NONE ☒ SLIGHT to ☒ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER

PH: 6.81 SU CONDUCTIVITY: 1458 umhos/cm

ORP: 8 mv DO: 0.60 mg/L

TURBIDITY: 359 NTU

☐ NONE ☒ SLIGHT to ☒ MODERATE ☐ VERY

TEMPERATURE: 15.8 °C ODOR: None

COLOR: V. lt orange ODOR: —

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: None

~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1400	300 ml/min	6.92	1370	-3	0.32	305	15.0	24.04	INITIAL 1.5
1405		6.86	1398	-2	0.41	—	15.4	24.04	3
1410		6.87	1410	-1	0.24	>1000	15.6	24.04	4.5
1415		6.85	1411	-1	0.29	—	15.9	24.04	6 L
1420		6.84	1421	1	0.29	—	15.8	24.04	7.5 L
1425		6.83	1442	4	0.44	371	14.8	24.04	9.0 L
1430		6.82	1456	3	0.68	—	16.0	24.04	10.5
1435		6.81	1459	4	0.64	366	16.4	24.04	12.0
1440		6.81	1458	8	0.60	359	15.8	24.04	13.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	8 oz	pl	A	☐ Y ☒ N
2	40 mL	VOA	E	☐ Y ☒ N					☐ Y ☐ N
1	16 oz	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	16 oz	pl	C	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 862464266001 / 861931 582
COC NUMBER: CT & STL	SIGNATURE: [signature]	DATE SIGNED: 7/17/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7/10/07	BY: LJB DATE: 8/24/07

SAMPLE ID: E137B WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1505	DATE: 7/10/07	SAMPLE	TIME: 1540	DATE: 7/10/07

PURGE METHOD: [X] PUMP Ded. Bladder [ ] BAILER

DEPTH TO WATER: 24.14 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 10.0 [ ] LITERS [ ] GALLONS

COLOR: V. lt orange ODOR: _____

TURBIDITY: [ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [X] DRUM [ ] OTHER

PH: 6.98 SU CONDUCTIVITY: 1514 umhos/cm

ORP: -1 mv DO: 0.51 mg/L

TURBIDITY: 39.1 NTU

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 14.1 °C ODOR: None

COLOR: Colorless ODOR: —

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: Colorless FILTRATE ODOR: _____

QC SAMPLE: ~~[ ] MS/MSD [ ] DUP~~

COMMENTS: —

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1517	300	6.93	1508	-1	0.86	—	14.6	24.14	INITIAL 2.5L
1520		6.94	1506	-2	0.74	362	14.5	24.14	4 L
1525		6.97	1503	-2	0.57	—	13.8	24.14	5.5
1530		6.98	1510	-1	0.52	116	13.7	24.14	7.0
1535		6.97	1511	-1	0.54	55.6	14.0	24.14	8.5
1540		6.98	1514	-1	0.51	39.1	14.1	24.14	10.0L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [✓] N					[ ] Y [ ] N
2	40ml	VOA	E	[ ] Y [X] N					[ ] Y [ ] N
2	16oz	pl	B, C	[X] Y [X] N					[ ] Y [ ] N
2	8oz	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8624 6426 6001 0
COC NUMBER: CT & JTL	SIGNATURE: [signature]	DATE SIGNED: 7/17/07

8619 3194 5821

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CALIBRATION LOG

PROJECT NAME:	MSGRG EGM-II	MODEL: Geotech P3	SAMPLER: ~~NRK~~ TTC
PROJECT NO.:	7133.03	SERIAL #: —	DATE: 7-09-07

PH CALIBRATION CHECK

pH 7 (LOT #): 6325 (EXP. DATE): 11-30-08	pH 4 / 10 (LOT #): 6321 (EXP. DATE): 11-30-08	TIME
-59.0 / -2	— / —	10:31
reads / 7.22	=> ~~CAL~~ / recalibrate	15:33
-59.8 / -15	— / —	15:35
NR /	4.05 /	16:40

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIB. READING (LOT #): 1609556 (EXP. DATE): Aug 2007	TEMPERATURE (°CELSIUS)	TIME
1393 / —	NR	10:31
1404 / —	25.3°C	15:35
/		
NR / —		16:40

ORP CALIBRATION CHECK

CALIB. READING (LOT #): 06J1971 (EXP. DATE):	TEMPERATURE (°CELSIUS)	TIME
203 /	NR	10:31
218 /	22.7	15:33
238 /	21.4	16:40
/		

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
1.10	10:31
1.14	15:33
1.17	16:40

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	TIME
— /	— /	
— /	— /	16:40
/	/	
/	/	

COMMENTS	
☐ AUTOCAL SOLUTION	☒ STANDARD SOLUTION (S)
(LOT #):	NOTE: IF USING STANDARD CALIBRATION SOLUTIONS LIST LOT NUMBERS AND EXPIRATION DATES UNDER APPROPRIATE CALIBRATION CHECK
(EXP. DATE):	
NOTE: LIST CALIBRATED PARAMETERS IN NOTES	

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED _____ DATE 7-09-07

CHECKED BY _____ DAT 8/24/07

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~TH~~ ~~NRK~~ DATE: 7/6/07	BY: NKF DATE: 8/27/07

SAMPLE ID: GW-07 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 14:47	DATE: 7-9-07	SAMPLE	TIME: 14:58	DATE: 7-9-07
PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER			PH: 7.54 SU	CONDUCTIVITY: 722 umhos/cm	
			ORP: -31 mv	DO: 0.06 mg/L	
DEPTH TO WATER: N/A T/ PVC			TURBIDITY: 0.53 NTU		
DEPTH TO BOTTOM N/A T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: _____ ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.6 °C	ODOR: none	
VOLUME REMOVED: _____ ☐ LITERS ☐ GALLONS			COLOR: colorless	ODOR:	
COLOR: colorless	ODOR: none		FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: colorless	FILTRATE ODOR: none	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ ~~MS/MSD~~ ☐ ~~DUP~~		
DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: drain in well house		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
14:43	~2,200	7.54	724	4	0.12	NR	11.2	N/A	INITIAL
14:46	"	7.55	725	-13	0.06	NR	10.8		well
14:51	"	7.55	722	-22	0.06	NR	10.5		pumping
14:54	"	7.55	723	-27	0.06	NR	10.5		at 100s
14:56	"	7.55	723	-29	0.06	NR	10.5		of gpm,
14:58	"	7.54	722	-31	0.06	0.53	10.6		flow from
									sample
									tap ~2,200 mL/min

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	1	250 ml	pl	A	☐ Y ☒ N
1	500ml	pl	C	☐ Y ☒ N	2	40 ml	VOA	C	☐ Y ☒ N
1	500ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	250ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/courier	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8629 6426 6071
COC NUMBER: CT/GTL	SIGNATURE: [signature]	DATE SIGNED: 7-9-07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~TLC NRK~~ DATE: 7-9-07	BY: LSM DATE: 8/24/07

SAMPLE ID: MW-4 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 15:44	DATE: 7-9-07	SAMPLE	TIME: 16:07	DATE: 7-09-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

DEPTH TO WATER: 19.48 T/ PVC

DEPTH TO BOTTOM NM T/ PVC

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 1.5 ☐ LITERS ☒ GALLONS

COLOR: v. lt. grey ODOR: none

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER

pH: 6.79 SU CONDUCTIVITY: 1495 umhos/cm

ORP: 15 mv DO: 0.23 mg/L

TURBIDITY: 1.17 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.5 °C ODOR: none

COLOR: Colorless ODOR: _____

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: colorless FILTRATE ODOR: _____

QC SAMPLE: ☐ ~~MS/MSD~~ ☐ DUP-

COMMENTS: ~~-~~ to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:44	160	6.74	1494	11	1.16	NR	12.3	19.48	INITIAL
15:53	160	6.74	1498	23	0.71	NR	12.3	19.54	1.44
15:55	340	6.75	1500	25	0.50	NR	11.9	NR	1.76
15:58	340	6.76	1495	22	0.33	NR	11.5	19.50	2.78
16:01	340	6.77	1493	18	0.25	1.17	11.7	19.50	3.80
16:04	340	6.79	1494	16	0.24	NR	11.6	19.54	4.82
16:07	340	6.79	1495	15	0.23	NR	11.5	19.54	5.84

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	40ml	VOA	E	☐ Y ☒ N
1	500ml	pl	C	☐ Y ☒ N					☐ Y ☐ N
1	500ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
2	250ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/courier DATE SHIPPED: 7/10/07 AIRBILL NUMBER: 862464266001

COC NUMBER: STL/CT Labs SIGNATURE: [signature] DATE SIGNED: 7-09-07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TC ~~NRK~~ DATE: 7-9-07	BY: LJM DATE: 8/24/07

SAMPLE ID: MW-14a WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 10:44	DATE: 7-09-07	SAMPLE	TIME: 12:02	DATE: 7-09-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

PH: 7.27 SU CONDUCTIVITY: 1434 umhos/cm

ORP: -45 mv DO: 0.21 mg/L

DEPTH TO WATER: 3.47 T/ PVC

TURBIDITY: 35.7 NTU

DEPTH TO BOTTOM: NM T/ PVC

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

TEMPERATURE: 12.7 °C ODOR: v. lt grey

VOLUME REMOVED: 6.3 ☐ LITERS ☒ GALLONS

COLOR: none ODOR:

COLOR: grey ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

TURBIDITY:

FILTRATE COLOR: colorless FILTRATE ODOR: none

☐ NONE ☐ SLIGHT ☒ MODERATE ☐ VERY

QC SAMPLE: ☐ MS/MSD ☐ DUP-

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

COMMENTS: → to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10:44	720 ~~NR~~	NR	NR	NR	NR	NR	NR	3.47	INITIAL
10:48	720 ~~NR~~	NR	NR	NR	NR	NR	NR	3.68	2.88
10:52	720	7.08	1380	-72	0.06	NR	11.7	3.65	~~3.36~~ 5.76
10:55	240	7.11	1395	-70	0.10	NR	13.4	~~3~~ NR	7.92
10:58	240	7.11	1397	-70	0.10	NR	13.7	3.63	8.64
11:02	240	7.13	1401	-66	0.11	220*	13.6	3.63	9.60
11:07	240	7.15	~~1382~~	-52	0.13	NR	13.2	3.64	10.8
11:15	240	7.19	~~1390~~ 1378	-45	0.14	92.7	13.3	3.65	12.72
11:19	240	7.21	1408	-54	0.14	64.9	13.0	3.65	13.68
11:24	240	7.22	1407	-50	0.15	NR	12.9	3.65	14.88

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
~~4~~ 3	40 mL	VOA	E	☐ Y ☑ N	1	500 ml	pl	B	☑ Y ☐ N
1	500 ml	pl	C	☐ Y ☑ N	2	40 ml	VOA	HCL	☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☑ N					☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☑ N					☐ Y ☐ N

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SHIPPING METHOD: Fed Ex	DATE SHIPPED: 7/9/07 @ 7/10/07	AIRBILL NUMBER: 8624 6426 6001
COC NUMBER: STL & CT Lab	SIGNATURE: [signature]	DATE SIGNED: 8/27/07 8619 3195773

REVISED 01/2007

too humid (high dew point) to measure turbidity [illegible] condensation on sample vial

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TC ~~NRK~~ DATE: 7-9-07	BY: LJH DATE: 8/24/07

SAMPLE ID: MW-14a

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11:32	240	7.24	1415	-50	0.17	51.2	12.7	3.55	16.8
11:37	240	7.26	1401	-49	0.20	43.7	12.9	3.55	18.0
11:42	240	7.27	1418	-49	0.21	39.0	12.6	3.55	19.2
11:47	240	7.27	1416	-48	0.21	36.4	12.9	3.55	20.4
11:52	240	7.27	1402	-47	0.21	35.2	13.0	3.55	21.6
12:02 ~~11:57~~	240	7.27	1424	-45	0.21	35.7	12.7	3.55	24.0
1									

SIGNATURE: _____ DATE SIGNED: 7-9-07

RMT®

CALIBRATION LOG

PROJECT NAME:	MSGRG EGM-II	MODEL: Geotech P3	SAMPLER: ~~NRK~~ TH2
PROJECT NO.:	7133.03	SERIAL #: —	DATE: 7-10-07

PH CALIBRATION CHECK

pH 7 (LOT #): 6325 (EXP. DATE): 11-30-08	pH 4 / 10 (LOT #): 6321 (EXP. DATE): 11-30-08	TIME
-59.2 / -3	— / —	8:08
/	4 → / 4.14	17:12
/	7 → / 7.11	17:12
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIB. READING (LOT #): 1608556 (EXP. DATE): Aug 2007	TEMPERATURE (°CELSIUS)	TIME
1384 / —	23.8	8:09
1387 / —	27.6	17:14
/		
/		

ORP CALIBRATION CHECK

CALIB. READING (LOT #): 0621971 (EXP. DATE): Sept 2008	TEMPERATURE (°CELSIUS)	TIME
211 / —	24.2	8:09
206 / —	25.8	17:11
/		
/		

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
1.00	8:10
E3 won't re-calibrate	17:18

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	TIME
537 / 50.1	4.79 / —	8:08
530 / 49.3	4.72 / —	17:18
/	/	
/	/	

COMMENTS	
☐ AUTOCAL SOLUTION	☒ STANDARD SOLUTION (S)
(LOT #):	NOTE: IF USING STANDARD CALIBRATION SOLUTIONS LIST LOT NUMBERS AND EXPIRATION DATES UNDER APPROPRIATE CALIBRATION CHECK
(EXP. DATE):	
NOTE: LIST CALIBRATED PARAMETERS IN NOTES	

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED [signature] DATE 7-10-07

CHECKED BY [signature] DATE 8/24/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~THC~~ ~~NRK~~ DATE: 7-10-07	BY: LJH DATE: 9/24/07

SAMPLE ID: MW-15A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 8:21	DATE: 7-10-07	SAMPLE	TIME: 8:45	DATE: 7-10-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

DEPTH TO WATER: 26.75 T/ PVC

DEPTH TO BOTTOM NM T/ PVC

WELL VOLUME: ~~N/A~~ ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 1.78 ☐ LITERS ☒ GALLONS

COLOR: V. lt. gray To colorless ODOR: none

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER to leachate tank

pH: 6.97 SU CONDUCTIVITY: 1325 umhos/cm

ORP: 1 mv DO: 0.23 mg/L

TURBIDITY: 9.15 NTU

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 12.4 °C ODOR: none

COLOR: colorless ODOR: _____

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: colorless FILTRATE ODOR: none

QC SAMPLE: ☒ MS/MSD ☐ ~~DUP~~

COMMENTS: MW-15A MS + MW-15A MSD

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
8:21	280	6.93	1327	-48	1.25	NR	12.5	26.75	INITIAL
8:26	280	6.94	1319	-20	0.80	196	12.5	26.76	1.40
8:30	280	6.94	1332	-6	0.46	~~NR~~ 12.7	12.4	26.77	2.52
8:35	280	6.95	1326	0	0.24	10.2	12.5	26.77	3.92
8:40	280	6.97	1322	1	0.22	9.31	12.4	26.77	5.32
8:45	280	6.97	1325	1	0.23	9.15	12.4	26.77	6.72
(2)	MW-15A, MW-15A MS, MW-15A MSD								

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
~~X2~~	40 mL	VOA	E	☐ Y ☒ N	X3	~~250 mL~~	pl	A	☐ Y ☒ N
X3	500 mL	pl	C	☐ Y ☒ N	X6	VOA	VOA	A	☐ Y ☒ N
X3	500 mL	pl	B	☒ Y ☐ N					☐ Y ☐ N
X3	250 mL	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/courier	DATE SHIPPED: 7/10/07	AIRBILL NUMBER: 8619 3945 8821
COC NUMBER: CT Labs/SR	SIGNATURE: [signature]	DATE SIGNED: 7-10-07

8604 6426 1 001

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: JHC ~~NRK~~ DATE: 7-10-07	BY: LJH DATE: 8/24/07

SAMPLE ID: MW-13A WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 10:40	DATE: 7-10-07	SAMPLE	TIME: 11:16	DATE: 7-10

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

PH: 7.61 SU CONDUCTIVITY: 756 umhos/cm

ORP: -110 mv DO: 0.36 mg/L

DEPTH TO WATER: 19.98 T/ PVC

TURBIDITY: 368 NTU

DEPTH TO BOTTOM NM T/ PVC

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

WELL VOLUME: N/A [ ] LITERS [ ] GALLONS

TEMPERATURE: 12.6 °C ODOR: none

VOLUME REMOVED: 1.96 [ ] LITERS [X] GALLONS

COLOR: lt. brown ODOR: none

COLOR: brown ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: colorless FILTRATE ODOR: none

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

QC SAMPLE: [ ] MS/MSD [X] DUP- 02

DISPOSAL METHOD [ ] GROUND [ ] DRUM [X] OTHER

COMMENTS: to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10:40	240	NR	NR	NR	NR	NR	NR	19.98	INITIAL
10:56	240	7.73	724	-125	0.47	NR	13.4	20.00	0.96
11:02	360	7.68	739	-131	0.45	485	12.8	20.00	2.40
11:07	360	7.65	741	~~-109~~	0.36	372	12.6	20.00	4.20
11:10	360	7.64	746	-124	0.35	365	12.6	20.00	5.28
11:14	360	7.62	751	-117	0.30	382	12.6	20.00	6.72
11:16	360	7.61	756	-115 -110	0.36	368	12.6	20.00	7.44

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
8	40 mL	VOA	E	[ ] Y [X] N	2	250 ml	pl	A	[ ] Y [X] N
2	500 ml	pl	C	[ ] Y [X] N	4	40 ml	VOA	A	[ ] Y [X] N
2	500 ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
2	250 ml	pl	A	[ ] Y [X] N					[ ] Y [ ] N

NK 8/27/07

SHIPPING METHOD: Fed Ex / courier DATE SHIPPED: ~~7/10/07~~ 7/10/07 AIRBILL NUMBER: 8619 3194 5521 0 8604 6926 6001

COC NUMBER: OPSTL SIGNATURE: [signature] DATE SIGNED: 7-10-07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THZ ~~NRK~~ DATE:	BY: LJB DATE: 8/24/07

SAMPLE ID: MW-13S WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12:22	DATE: 7-10-07	SAMPLE	TIME: 12:39	DATE: 7-10-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

PH: 7.63 SU CONDUCTIVITY: 690 umhos/cm

ORP: 143 mv DO: 4.63 mg/L

DEPTH TO WATER: 20.07 T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

TURBIDITY: 6.63 NTU

☒ NONE to ☒ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: N/A. ☐ LITERS ☐ GALLONS

TEMPERATURE: 12.3 °C ODOR: none

VOLUME REMOVED: 2.1 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR: none

COLOR: lt. brown ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

TURBIDITY: ☐ NONE ☒ SLIGHT to ☒ MODERATE ☐ VERY

FILTRATE COLOR: colorless FILTRATE ODOR: none

QC SAMPLE: ~~☐ MS/MSD ☐ DUP~~

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

COMMENTS: to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12:22	540	7.64	673	148	4.72	NR	12.5	20.07	INITIAL
12:27	540	7.64	680	144	4.62	NR	12.8	20.07	2.70
12:29	480	7.63	675	143	4.43	3.68	12.4	20.07	3.78
12:34	480	7.63	690	149	4.53	11.7	12.4	20.07	6.18
12:37	480	7.63	680	143	4.72	8.35	12.4	20.07	7.62
12:39	480	7.63	690	143	4.63	6.63	12.3	20.07	8.08

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☒ N	1	250 ml	pl	A	☐ Y ☒ N
1	500 ml	pl	C	☐ Y ☒ N	2	40 ml	VOA	A	☐ Y ☒ N
1	500 ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: FedEx/common DATE SHIPPED: 7/10/07 AIRBILL NUMBER: 8619 3194 5821 8624 6442 6004

COC NUMBER: CT-STL SIGNATURE: [signature] DATE SIGNED: 7-10-07

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THC ~~NRK~~ DATE: 7-10-07	BY: LSM DATE: 8/24/07

SAMPLE ID: ~~E~~ 135A — WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 14:08	DATE: 7-10-07	SAMPLE	TIME: 14:38	DATE: 7-10-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

DEPTH TO WATER: 40.05 T/ PVC

DEPTH TO BOTTOM NM T/ PVC

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 3.4 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR: none

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

pH: 7.08 SU CONDUCTIVITY: 1267 umhos/cm

ORP: -40 mv DO: 1.36 mg/L

TURBIDITY: 3.47 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 13.0 °C ODOR: none

COLOR: Colorless ODOR: ____

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: none

QC ~~SAMPLE~~: ☐ MS/MSD ☐ DUP- ____

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
14:08	7600	NR	NR	NR	NR	NR	NR	~~40~~.05	INITIAL
14:12	~~725~~ 400	7.07	1269	-37	0.72	NR	13.3	40.09	~2.5
14:31	400	7.09	1270	-31	0.70	11.3	13.2	40.09	6.1
14:26	400	7.09	1270	-34	0.57	6.34	13.4	40.09	8.1
14:28	400	7.09	1268	-44	0.76	4.61	13.3	40.09	8.9
14:30	400	7.09	1267	-33	0.90	4.13	13.2	40.09	9.7
14:32	400	7.08	1269	-34	1.03	4.21	13.2	40.09	10.5
14:34	400	7.09	1270	-40	1.38	3.67	13.4	40.09	11.3
14:36	400	7.08	1269	T 7110 ~~-36~~ -43	1.28	3.66	13.2	40.09	12.1
14:38		7.08	1267	-40	1.36	3.47	13.0	40.09	12.9

(bubbling in flow through)

5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - ____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	2	40ml	VOA	E	☐ Y ☒ N
1	500ml	pl	C	☐ Y ☒ N					☐ Y ☐ N
1	500ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
2	250ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: FedEx/Courier DATE SHIPPED: 7/10/07 AIRBILL NUMBER: 861931945821 9560 4 6.4 6001

COC NUMBER: CT-0 STL SIGNATURE: [signature] DATE SIGNED: 7-10-07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THC ~~NRK~~ DATE: 7-10-07	BY: LJB DATE: 8/24/07

SAMPLE ID: E135B — WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 15:55	DATE: 7-10-07	SAMPLE	TIME: 16:45	DATE: 7-10-07

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

DEPTH TO WATER: 40.10 T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

WELL VOLUME: N/A [ ] LITERS [ ] GALLONS

VOLUME REMOVED: ~6.1 [ ] LITERS [X] GALLONS

COLOR: lt. greenish-gray ODOR: none

TURBIDITY: [ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [ ] DRUM [X] OTHER

PH: 7.37 SU CONDUCTIVITY: 775 umhos/cm

ORP: -38 mv DO: ~~1.09~~ mg/L NR TC 7/10

TURBIDITY: 1.09 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 13.7 °C ODOR: none

COLOR: colorless ODOR:

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: FILTRATE ODOR:

QC SAMPLE: [ ] MS/MSD [ ] DUP-

COMMENTS: to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:55	>500	NR	-NR	NR	NR	NR	NR	40.10	INITIAL
16:08	210	7.55	773	2		NR	13.7	40.16	~4 gal / 15L
16:13	220	7.48	772	-6		NR	13.1	40.16	16.05L
16:23	220	7.37	685	-22		NR	15.8	40.16	18.25
16:25	220	7.38	761	-39		NR	15.3	40.16	18.69
16:26	220	7.38	772	-26		5.04	14.7	40.16	18.91
16:30	220	7.37	777	-31		2.53	14.1	40.16	19.79
16:35	220	7.36	776	-33		1.70	13.5	40.16	20.89
16:40	220	7.36	775	-32		1.41	13.6	40.16	21.99
stet ~~16:45~~	~~220~~	7.37	775	-38	no D.O.	1.09 s/c elbow	13.7 joint	40.16 leaking air to	23.0 L discharge hose

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [X] N	1	250ml	pl	A	[ ] Y [X] N
1	500ml	pl	C	[ ] Y [X] N	2	40ml	VOA	E	[ ] Y [X] N
1	500ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
1	250ml	pl	A	[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx/Courier DATE SHIPPED: 7/10/07 AIRBILL NUMBER: 8619 3144 5821 + 8024 6426 6001

COC NUMBER: STL CT Labs SIGNATURE: [signature] DATE SIGNED: 7-10-07

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RMT®

CALIBRATION LOG

PROJECT NAME:	MSGRG EGM-II	MODEL: Geotech P3	SAMPLER: ~~NRK~~ THC
PROJECT NO.:	7133.03	SERIAL #: —	DATE: 7-11-07

PH CALIBRATION CHECK

pH 7 (LOT #): 6325 (EXP. DATE): 11-30-08	pH 4 / 10 (LOT #): 6321 (EXP. DATE): 11-30-08	TIME
-59.31 / -4	— / —	8:07
7-7 / 7.16	4-7 / 4.17	18:59
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIB. READING (LOT #): 1608556 (EXP. DATE): Aug 2007	TEMPERATURE (°CELSIUS)	TIME
1398 / —	20.9	8:05
1385 / —	26.9	18:59
/		
/		

ORP CALIBRATION CHECK

CALIB. READING (LOT #): 06J1971 (EXP. DATE): Sept 2008	TEMPERATURE (°CELSIUS)	TIME
243 / —	19.2	8:09
196 / —	27.6	18:59
/		
/		

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
1.15	8:07
1.15	18:58

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	TIME
~~1398~~ / —	— / —	
537 / 49.9	4.77 / —	8:07
534 / 49.4	4.79 / —	19:07
/	/	

COMMENTS	
☐ AUTOCAL SOLUTION	☒ STANDARD SOLUTION (S)
(LOT #):	NOTE: IF USING STANDARD CALIBRATION SOLUTIONS LIST LOT NUMBERS AND EXPIRATION DATES UNDER APPROPRIATE CALIBRATION CHECK
(EXP. DATE):	
NOTE: LIST CALIBRATED PARAMETERS IN NOTES	

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS

SIGNED Troy HC DATE 7-11-07

CHECKED BY [signature] DATE 5/24/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TTR ~~NRK~~ DATE: 7-11-07	BY: LVB DATE: 8/24/07

SAMPLE ID: ~~MW-5~~ MW-6 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 9:53	DATE: 7-11-07	SAMPLE	TIME: 10:09	DATE: 7-11-07

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

Flowing

DEPTH TO WATER: NM T/ PVC

DEPTH TO BOTTOM NM T/ PVC

WELL VOLUME: N/A [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 2.9 [ ] LITERS [X] GALLONS

COLOR: colorless ODOR: none

TURBIDITY: [X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD [ ] GROUND [ ] DRUM [X] OTHER

PH: 7.68 SU CONDUCTIVITY: 632 umhos/cm

ORP: -64 mv DO: 0.24 mg/L

TURBIDITY: 0.74 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 11.1 °C ODOR:

COLOR: colorless ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

FILTRATE COLOR: colorless FILTRATE ODOR: none

QC SAMPLE: [ ] MS/MSD [ ] DUP.

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:53	Flowing	7.68	671	-67	~~2.8~~ 0.30	NR	11.5	Flowing	INITIAL
~~9:~~	@690 ml/min						~~11.3~~		
10:00		7.68	674	-65	0.25	NR	11.3		
10:03		7.68	675	-65	0.24	3.16	11.2		
10:05		7.68	674	-64	0.24	0.94	11.2		
10:07		7.68	674	-65	0.24	0.56	11.2		
10:09		7.68	632	-64	0.24	0.74	11.1		11.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [✓] N	1	250 ml	pl	A	[ ] Y [X] N
1	500 ml	pl	C	[ ] Y [X] N	2	40 ml	VOA	E	[ ] Y [X] N
1	500 ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
1	250 ml	pl	A	[ ] Y [ ] N					[ ] Y [ ] N

NK 8/27/07

SHIPPING METHOD: FedEx/courier	DATE SHIPPED: ~~7/11/07~~ 7/11/07	AIRBILL NUMBER: ~~8619 3194 5821~~
COC NUMBER: CT-STL	SIGNATURE: Troy He	DATE SIGNED: 7-11-07

NK 8/ ~~8624~~ ~~6426~~ ~~6001~~

REVISED 01/2007

7/16/07

8619 3194 5821

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: [illegible] ~~NRK~~ DATE:	BY: LJB DATE: 8/24/07

SAMPLE ID: MW17 WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 10:43	DATE: 7-11-07	SAMPLE	TIME: 11:56	DATE: 7-11-07

PURGE METHOD: [X] PUMP bladder [ ] BAILER

PH: 8.89 SU CONDUCTIVITY: 398 umhos/cm

ORP: -35 mv DO: 0.12 mg/L

DEPTH TO WATER: NM T/ PVC packer in way

DEPTH TO BOTTOM NM T/ PVC

TURBIDITY: off NTU Scale (E3)

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

WELL VOLUME: N/A [ ] LITERS [ ] GALLONS

TEMPERATURE: 11.8 °C ODOR: none

VOLUME REMOVED: 8.5 [ ] LITERS [X] GALLONS

COLOR: brownish-gray ODOR: none

COLOR: brownish-gray ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: v lt brn FILTRATE ODOR: none → turbidity of filtrate sample is 32.0 NTU

[ ] NONE [ ] SLIGHT [ ] MODERATE [X] VERY

QC SAMPLE: [ ] MS/MSD [ ] DUP-

DISPOSAL METHOD [ ] GROUND [ ] DRUM [X] OTHER

COMMENTS: packer in well - no water levels

to cachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10:43	440	NR	NR	NR	NR	NR	NR	NM	INITIAL
10:53	440	8.67	388	115	0.09	E3 v. turbid	11.9		
10:56	440	8.67	382	101	0.06	v. turbid	11.8		
10:59	440	8.68	395	87	0.06	v. turbid	11.6		
11:03	440	8.68	363	45	0.06	E3	11.7		
11:07	440	8.69	373	36	0.06	E3	11.7		
11:10	440	8.70	385	24	0.06	E3	11.6		
11:13	440	8.72	395	15	0.07	E3	11.8		
11:16	440	8.74	399	7	0.07	E3	11.6		
11:19	440	8.77	398	-3	0.07	E3	11.7		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [✓] N	1	250 ml	pl	A	[ ] Y [X] N
1	500 ml	pl	C	[ ] Y [X] N	2	40 ml	pl	E	[ ] Y [X] N
1	500 ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
1	~~500 ml~~ 250	pl	~~B~~ A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx/courier DATE SHIPPED: 7/11/07 7/16/07 AIRBILL NUMBER: 8619 3194 5816

COC NUMBER: CT & STL SIGNATURE: [signature] DATE SIGNED: 7-11-07

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TTZ ~~NRK~~ DATE: 7-11-07	BY: LJB DATE: 8/24/07

SAMPLE ID: MW-17 (Con't)

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
11:22	440	8.78	398	-7	0.07	E3	11.9	NM	
11:25	440	8.78	400	-33	0.08	E3	11.7		
11:29	440	8.79	336	-41	0.08	E3	11.8		
11:33	440	8.81	NR	-61	0.08	E3	11.7		
11:38	440	8.82	399	-75	0.12	E3	11.6		
11:43	440	8.85	401	-13	0.20	E3	11.8		26.4
11:47	440	8.86	402	-17	0.13	E3	11.8		
11:50	440	8.88	400	-39	0.11	E3	11.9		
11:53	440	8.88	399	-37	0.11	E3	11.8		
11:56	440	8.89	398	-35	0.12	v. turbid	11.8		32.12

too turbid for meter to register

SIGNATURE: Troy Hz 7-11-07

DATE SIGNED: _____

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THG ~~NRK~~ DATE: 7-11-07	BY: CJB DATE: 7/11

SAMPLE ID: MW-17A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE: 7-11-07	SAMPLE	TIME: 12:36	DATE: 7-11-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

PH: 7.36 SU CONDUCTIVITY: 1146 umhos/cm

ORP: -79 mv DO: 0.08 mg/L

DEPTH TO WATER: flowing T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

TURBIDITY: 0.74 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

TEMPERATURE: 11.9 °C ODOR: none

VOLUME REMOVED: 3.7 ☐ LITERS ☒ GALLONS

COLOR: colorless ODOR: none

COLOR: colorless ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

TURBIDITY:

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

FILTRATE COLOR: Colorless FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ~~☒ DUP 03~~

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

COMMENTS: to leachate tank NO DUP

TL 7/11

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12:22	~1000	7.34	1131	-86	0.07	2.97	12.5	Flowing	INITIAL
12:26	1000	7.34	1147	-80	0.04	~~4.91~~ TL 7/11	12.3		
12:28	1000	7.35	1142	-76	0.05	4.28	12.2		
12:30	1000	7.36	1142	-79	0.05	4.13	12.3		
12:31	1000	7.37	1144	-70	0.04	2.03	12.3		
12:32	1000	7.37	1141	-73	0.05	2.30	12.1		
12:33	1000	7.37	1137	-75	0.05	1.12	12.0		
12:34	1000	7.37	1132	-77	0.06	0.77	12.2		
12:35	1000	7.37	1144	-78	0.06	0.82	12.1		
12:36	1000	7.36	1146	-79	0.08	0.74	11.9		14 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	1	250 ml	pl	A	☐ Y ☒ N
1	500 ml	pl	C	☐ Y ☒ N	2	40 ml	VOA	E	☐ Y ☒ N
1	500 ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex/conn DATE SHIPPED: 7/11/07 + 7/16/07 AIRBILL NUMBER: 861931945810

COC NUMBER: BTL + CT 2 ... SIGNATURE: [signature] DATE SIGNED: 7-11-07

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~THR~~ ~~NRK~~ DATE: 7/11/07	BY: LSH DATE: 8/24/07

SAMPLE ID: MW-5A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME:	DATE: 7-11-07

PURGE METHOD: ☒ PUMP bladder/dedicated ☐ BAILER

DEPTH TO WATER: 28.55 T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 2.2 ☐ LITERS ☒ GALLONS

COLOR: Colorless ODOR: none

TURBIDITY: ☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

DISPOSAL METHOD: ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 14:32	DATE: 7-11-07

PH: 7.74 SU CONDUCTIVITY: 703 umhos/cm

ORP: -95 mv DO: 0.12 mg/L

TURBIDITY: 1.40 NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

TEMPERATURE: 11.7 °C ODOR: none

COLOR: Colorless ODOR:

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: Colorless FILTRATE ODOR: none

QC SAMPLE: ☐ ~~MS/MSD~~ ☐ ~~DUP~~

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
14:15	770	7.51	703	-45	6.44	NR	11.6	28.55	INITIAL
14:18	440	7.50	702	-54	0.20	4.24	11.7	NR	2.11
14:21	440	7.79	703	-69	0.19	2.03	11.8	28.58	3.92
14:24	440	7.78	703	-78	0.17	1.89	11.7	28.58	4.80
14:26	440	7.77	~~7.69~~	-81	0.14	1.63	11.7	28.58	5.68
14:28	440	7.76	TC 7/11 703	-85	0.14	1.44	11.6	28.58	6.56
~~14:30~~	~~440~~	7.75	703	-90	0.14	1.46	11.7	28.58	7.44
14:32	440	7.74	703	-95	0.12	1.40	11.7	28.58	8.32

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	1	250ml	pl	A	☐ Y ☒ N
1	500ml	pl	C	☐ Y ☒ N	2	40ml	VOA	E	☐ Y ☑ N
1	500ml	pl	B	☐ Y ☐ N					☐ Y ☐ N
1	250ml	pl	A	☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx/courier DATE SHIPPED: 7/11/07 ~ 7/16/07 AIRBILL NUMBER: 8619319455 16

COC NUMBER: CT-STL SIGNATURE: [signature] DATE SIGNED: 7-11-07

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THE ~~NRK~~ DATE:	BY: CSM DATE: 5/24/07

SAMPLE ID: MW-3 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 15:12	DATE: 7-11-07	SAMPLE	TIME: 16:05	DATE: 7-11-07
PURGE METHOD: ☒ PUMP Grundfos ☐ BAILER			PH: 7.34 SU	CONDUCTIVITY: 1849 umhos/cm	
			ORP: -75 mv	DO: 0.86 mg/L	
DEPTH TO WATER: 11.50 T/ PVC			TURBIDITY: 0.68 NTU		
DEPTH TO BOTTOM: NM T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: N/A ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.7 °C	ODOR: none	
VOLUME REMOVED: 3.6 ☐ LITERS ☒ GALLONS			COLOR: colorless	ODOR: none	
COLOR: colorless ODOR: none			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: colorless	FILTRATE ODOR: none	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP:		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: to leachate tank.		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:12	80	NR	NR	NR	NR	NR	NR	11.50	INITIAL
15:21	80	7.26	1863	-18	0.92	NR	11.7	11.68	0.72
15:23	320	7.26	1834	-41	1.16	NR	16.2	11.65	0.88
15:26	320	7.29	1846	-57	0.56	5.06	12.3	11.67	1.84
15:29	320	7.30	1850	-55	0.52	3.18	12.1	11.67	2.80
15:32	320	7.31	1848	-61	0.39	3.75	12.1	11.67	3.76
15:35	320	7.31	1845	-65	0.31	3.07	11.9	11.67	4.72
15:38	320	7.32	1850	-68	0.26	NR	11.9	11.67	5.68
15:41	320	7.33	1849	-71	0.26	2.11	11.7	11.67	6.64
15:44	320	7.33	1849	-73	0.30	1.48	11.8	11.67	7.52

pulled pump lines up a bit before water level measurement.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	1	250mL	pl	A	☐ Y ☒ N
1	500mL	pl	C	☐ Y ☒ N	2	40mL	VOA	G	☐ Y ☒ N
1	500mL	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	950mL	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: FedEx/courier	DATE SHIPPED: 7/11/07 07/10/07	AIRBILL NUMBER: 8619 3194 5816
COC NUMBER: CT/GTL	SIGNATURE: [signature]	DATE SIGNED: 7-11-07

REVISED 01/2007

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THC ~~NRK~~ DATE: 7-11-07	BY: LJB DATE: 5/24/07

SAMPLE ID: MW-3

probe results wandering?

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:47	~~320~~ 320	7.33	1848	-76	0.40	1.81	11.9	11.67	8.40
15:50	320	7.33	1850	-77	0.47	1.21	11.7	11.67	9.28
15:53	320	7.34	1849	-77	0.53	1.00	11.7	11.67	10.16
15:56	320	7.34	1849	-78	0.63	0.57	11.7	11.67	11.04
15:59	320	7.34	1849	-78	0.72	1.06	11.7	11.67	11.92
16:02	320	7.34	1850	-79	0.78	1.22	11.7	11.67	12.8
16:05	320	7.34	1849	-79	0.86	0.68	11.7	11.67	13.68

SIGNATURE: [signature] 7-11-07

DATE SIGNED: _____

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TTR NRK DATE: 7-11-07	BY: LJM DATE: 8/24/07

SAMPLE ID: MW-03A WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [ ] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME:	DATE: 7-11-07	SAMPLE	TIME: 18:27	DATE: 7-11-07

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

PH: 8.76 SU CONDUCTIVITY: 419 umhos/cm

ORP: -129 mv DO: 0.23 mg/L

DEPTH TO WATER: 15.90 T/ PVC

TURBIDITY: 182 NTU

DEPTH TO BOTTOM: NM T/ PVC

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

WELL VOLUME: N/A. [ ] LITERS [ ] GALLONS

TEMPERATURE: 12.5 °C ODOR:

VOLUME REMOVED: ~6.8 [ ] LITERS [X] GALLONS

COLOR: V. lt brownish gray ODOR: None

COLOR: lt. brownish-grey ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: Colorless FILTRATE ODOR: none

[ ] NONE [ ] SLIGHT [X] MODERATE [ ] VERY

QC SAMPLE: [ ] MS/MSD [ ] DUP.

DISPOSAL METHOD: [ ] GROUND [ ] DRUM [X] OTHER

COMMENTS:

likely lower ~11.5

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
16:31	560	8.73	424	94	0.61	NR	11.7	15.90	INITIAL
16:35	480	8.68	423	86	0.56	NR	11.6	NR	2.24
16:38	210	8.68	422	71	0.55	NR	12.3	21.10	3.68
16:41	~~210~~ 90	8.68	422	72	0.61	NR	13.4	23.90	4.31
16:46	90	8.66	420	72	0.61	17.6	13.9	24.40	4.76
16:52	90	8.64	419	~~63~~ 70	0.53	16.6	14.0	NR	5.30
16:57	90	8.62	417	TC 7/11 69	0.52	~~16.6~~	14.3	25.30	5.75
17:18	90	8.66	415	34	0.43	15.3 19.0 TC 7/11	14.2	26.45	6.74
17:28	90	8.66	412	3	0.36	NR	14.6	26.90	7.64
~~17:38~~	start to drawdown to ~38° per Nate's advice.								8.27

TC 7/11 1L

slower rate water in gun

17:35 NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED — PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [X] N	1	250 ml	pl	A	[ ] Y [X] N
1	500 ml	pl	C	[ ] Y [X] N	2	40 ml	VOA	E	[ ] Y [X] N
1	500 ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
1	250 ml	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx/courier DATE SHIPPED: 7/11/07 & 7/16/07 AIRBILL NUMBER: 8619 3194 5816

COC NUMBER: STL PCT Labs SIGNATURE: [signature] DATE SIGNED: 7-11-07

REVISED 01/2007

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WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TAC ~~NRK~~ DATE: 7-11-07	BY: LJB DATE: 8/24/07

SAMPLE ID: MW-03A

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
TC 7/11 17:48	~~470~~ 560	8.70	420	-138	0.24	NR	11.2	37.10	15.55
17:52	560	8.69	421	-134	0.19	NR	11.2	38.35	17.79
17:55	400	8.70	420	-139	0.20	125	11.2	39.65	19.47
17:58	400	8.70	421	-139	0.22	169	11.4	41.40	20.67
17:59	320	8.71	420	-139	0.21	NR	11.4	NR	21.07
TC 7/11 18:04	~~320~~ 160	8.71	420	-135	0.19	NR	11.5	42.90	22.67
18:10	160	8.73	420	-139	0.22	NR	12.4	43.40	23.63
18:14	160	8.73	419	-140	0.24	NR	12.2	43.50	24.27
TC 7/11 18:18	~~160~~	NR	NR	NR	NR	NR	NR	43.60	24.91
18:22	80 80	8.74	419	-134	0.23	198	12.8	43.35	25.23
18:25	80	8.74	419	-135	0.22	NR	12.8	43.35	25.47
18:27	80	8.76	419	-129	0.23	-182	12.5	43.35	~~[illegible]~~ 25.71 (L)

Top of pump @ 45' bgs

SIGNATURE: Troy Hz 7-11-07

DATE SIGNED: _____

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THC ~~NRK~~ DATE: 7-12-07	BY: LJM DATE: 8/24/07

SAMPLE ID: P64C WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 10:45	DATE: 7-12-07	SAMPLE	TIME: 12:17	DATE: 7-12-07

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

PH: 7.13 SU CONDUCTIVITY: 1007 umhos/cm

ORP: 4 mv DO: NA mg/L

DEPTH TO WATER: 11.20 T/ PVC

TURBIDITY: 0.48 NTU

DEPTH TO BOTTOM: NM T/ PVC

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

WELL VOLUME: NA [ ] LITERS [ ] GALLONS

TEMPERATURE: 11.9 °C ODOR: none

VOLUME REMOVED: 5.6 [ ] LITERS [X] GALLONS

COLOR: Colorless ODOR:

COLOR: Colorless ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: Colorless FILTRATE ODOR: none

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

QC SAMPLE: [X] MS/MSD [X] DUP- 03

DISPOSAL METHOD: [ ] GROUND [ ] DRUM [X] OTHER

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
10:43	100	NR	NR	NR	NR	NR	NR	11.20	INITIAL
11:06	250	6.93	948	23	E3	NR	12.1	11.21	2.3
11:16	250	6.98	929	12	E3	NR	12.1	11.21	4.8
11:17	400	7.00	985	9	E3	3.67	11.8	11.21	5.05
11:28	400	7.01	1000	-4	E3	1.40	11.8	11.21	9.45
~~11:33~~	400	7.03	1003	2	E3	0.97	11.8	11.21	13.45
11:41	400	7.03	999	-1	E3	0.48	11.9	11.21	14.65
↳ started sampling, air compressor overheats and stops, need to re-start sampling (see next pg)									
12:02	400	7.08	1030	11	NR	NR	12.1	11.21	14.65

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
(16) ~~4~~	40 mL	VOA	E	[ ] Y [✓] N	4	250 ml	pl	A	[ ] Y [ ] N
4	500 ml	pl	C	[ ] Y [X] N	8	40 ml	VOA	E	[ ] Y [ ] N
4	500 ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
4	250 ml	pl	A	[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: FedEx/courier	DATE SHIPPED: 7/12/07-07/16/07	AIRBILL NUMBER: 8 619 3194 5795
COC NUMBER:	SIGNATURE: Troyette	DATE SIGNED: 7-12-07.

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RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~NRK~~ TH2 DATE: 7-12-07	BY: LJH DATE: 8/24/07

SAMPLE ID: ~~MW~~ P64C

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
12:08	400	7.10	1077	5	NR	NR	12.10	11.21	17.05
12:11	400	7.11	1071	5	ER	NR	12.3	11.21	18.85
12:14	400	7.12	1070	5	ER	NR	12.4	11.21	20.05
12:16	400	7.13	1069	5	ER	NR	11.9	11.21	20.85
12:17	400	7.13	1007	4	ER	0.48	11.9	11.21	21.25

SIGNATURE: TH2 7-12-07 DATE SIGNED: _____

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used Nate's set of calibration solutions.

PAGE _____ OF _____

RMT®

CALIBRATION LOG

Eric Pylkas

PROJECT NAME: MSGRG EGM-II	MODEL: Geotech P3	SAMPLER: ~~NRK~~ EJP	
PROJECT NO.: 7133.03	SERIAL #: —	DATE: 7-12-07	

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	TIME
7.00 / ~~9.4~~	3.97 / —	840
7.03 / —	4.09 / —	1318
/	/	
/	/	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIB. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	TIME
1437 / —	22.2	840
1416 / —	31.9	1318
/		
/		

ORP CALIBRATION CHECK

CALIB. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	TIME
234 mV / —	25.0 C	840
217 / —	28.2	1318
/		
/		

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
0.71	840
0.69	1318

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU) (LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):	TIME
5.59, 579, 565 / —	— / —	840
5.74, 57.2 / 563	— / —	1318
/	/	
/	/	

COMMENTS

☐ AUTOCAL SOLUTION
(LOT #):
(EXP. DATE):
NOTE: LIST CALIBRATED PARAMETERS IN NOTES

☐ STANDARD SOLUTION (S)
NOTE: IF USING STANDARD CALIBRATION SOLUTIONS LIST LOT NUMBERS AND EXPIRATION DATES UNDER APPROPRIATE CALIBRATION CHECK

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS
ORP out of range on pre-cal.	

Tlogitz for EJP 7-18-07
SIGNED DATE

[signature] 8/24/07
CHECKED BY DATE

REVISED 01/2007

EJP - Eric Pylkas

PAGE _____ OF _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ERI ~~NRK~~ DATE: 7-12-07	BY: LJB DATE: 8/24/07

SAMPLE ID: E141A WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

and UW-09 on next page.

PURGING	TIME: 9:11	DATE: 7-12-07	SAMPLE	TIME: 10:13	DATE: 7-12-07

PURGE METHOD: [X] PUMP bladder (dedicated) [ ] BAILER

PH: 6.96 SU CONDUCTIVITY: 1291 umhos/cm

ORP: 3 mv DO: 0.46 mg/L

DEPTH TO WATER: 32.12 T/ PVC

TURBIDITY: 2.34 NTU

DEPTH TO BOTTOM NM T/ PVC

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

WELL VOLUME: N/A [ ] LITERS [ ] GALLONS

TEMPERATURE: 13.2 °C ODOR:

VOLUME REMOVED: [ ] LITERS [ ] GALLONS

COLOR: Clear ODOR: None

COLOR: Colorless ODOR: none

FILTRATE (0.45 um) [X] YES [ ] NO

TURBIDITY:

FILTRATE COLOR: colorless FILTRATE ODOR: none

[ ] NONE [X] SLIGHT [ ] MODERATE [ ] VERY

QC SAMPLE: [ ] MS/MSD [ ] DUP-

DISPOSAL METHOD [ ] GROUND [ ] DRUM [X] OTHER

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
9:11	300	NR	NR	NR	NR	NR	NR	32.12	INITIAL
923	300	6.93	2	2	1.69	4.31	12.9	32.18	3.6
926	300	6.82	1256	1	0.57	2.23	14.2	32.21	4.6
929	300	6.86	1158	2	0.28	3.52	12.9	32.15	5.4
933	300	6.88	684	0	0.25	1.89	14.0	32.15	6.6
937	300	6.82	694	3	0.21	2.01	14.7	32.16	7.8
940	300	6.89	1209	4	0.24	2.05	13.1	32.17	8.7
943	300	6.83	1293	9	1.27	2.38	14.7	32.16	9.6
947	300	6.91	771	7	1.49	2.43	13.7	32.15	10.8
954	300	6.94	1280	3	0.39	3.25	13.2	32.18	12.9

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [X] N	2	40 ml	VOA	E	[ ] Y [X] N
1	500ml	pl	C	[ ] Y [X] N					[ ] Y [ ] N
1	500ml	pl	B	[X] Y [ ] N					[ ] Y [ ] N
2	250ml	pl	A	[ ] Y [X] N					[ ] Y [ ] N

SHIPPING METHOD: Fed Ex/Courier DATE SHIPPED: 7/12/07 & 7/16/07 AIRBILL NUMBER: 8619 3194 5295

COC NUMBER: STL & CT Labs SIGNATURE: Troy Hz for EJP DATE SIGNED: 7-18-07

REVISED 01/2007

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED		CHECKED	
PROJECT NUMBER: 7133.03	BY: ~~NRK~~	DATE:	BY: [illegible]	DATE: 5/24/07

ERIC

SAMPLE ID: ~~MW~~ E141 A Cont

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
958	300	6.93	1293	5	0.40	1.80	12.6	32.19	
1001	300	6.96	1296	2	0.42	1.88	13.0	32.16	
1004	300	6.96	1293	2	0.40	1.41	12.8	32.20	
1009	300	6.96	1291	4	0.42	1.92	13.2	32.20	
1013	300	6.96	1291	3	0.46	2.34	13.2	32.18	
					DO ChemEt = 0.9				
	MW-09		7-18-07						
1140	140	NR	NR	NR	NR	NR	NR	3.21	
1148	250	NR	NR	NR	NR	NR	NR	3.29	
1154	-	7.50	1305	-4	0.57	E-3 (NR)	14.4	3.25	
1158		7.54	1324	-1	0.26	E-3 (NR)	14.0	3.24	
1202		7.56	1346	-1	0.34	E-3 (NR)	13.5	3.26	
1206		7.56	1326	-2	0.34	E-3 (NR)	13.7	3.25	
1210		7.54	1333	-1	0.30	E-3 (NR)	13.5	3.25	
1214		7.56	1334	-1	0.36	1000	13.8	3.25	
1218		7.57	1323	1	0.29	1000	13.3	3.25	
1224		7.54	1332	1	0.32	1000	13.4	3.25	
1228		7.55	1333	-1	0.42	1000	13.3	3.25	
1232		7.55	1336	-1	0.43	1000	13.2	3.25	
1234		7.57	1331	0	0.41	1000	13.2	3.25	
				ChemEts = 0.6					

notes for MW-09

Filled bottles:

4	40ml	VOA	E	N
1	500ml	pl	C	N
1	500ml	pl	B	Y
2	250ml	pl	A	N
2	40ml	VOA	E	N

SIGNATURE: Troyett C for EJP 7-18-07

DATE SIGNED: [illegible]

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: ~~THC~~ NRK DATE: 7/12/07	BY: LSH DATE: 8/24/07

SAMPLE ID: MW-10 WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 14:17	DATE: 7-12-07	SAMPLE	TIME: 15:17	DATE: 7-12-07
PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER			PH: ~~7.45~~ 7.45 SU	CONDUCTIVITY: 1210 umhos/cm	
			ORP: 10 mv	DO: <1.0 mg/L chemetrics	
DEPTH TO WATER: 16.07 T/ PVC			TURBIDITY: NR NTU		
DEPTH TO BOTTOM: NM T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: N/A ☐ LITERS ☐ GALLONS			TEMPERATURE: 11.6 °C	ODOR:	
VOLUME REMOVED: 2.6 ☐ LITERS ☒ GALLONS			COLOR: colorless	ODOR: none	
COLOR: colorless ODOR: none			FILTRATE (0.45 um) ☒ YES ☐ NO		
TURBIDITY:			FILTRATE COLOR: colorless	FILTRATE ODOR: none	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ ~~MS/MSD~~ ☐ DUP-		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER			COMMENTS: to bladder tank.		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
14:17	400	NR	NR	NR	NR	NR	NR	16.07	INITIAL
14:51	310	7.40	1210	63	E3	NR	12.7	16.08	~~0.5 gal~~ slt
14:55	310	7.40	1212	19	E3	NR	12.2	16.08	~3.1
15:05	310	7.40	1217	12	E3	NR	11.6	16.08	6.2
15:08	310	7.45	1212	8	E3	NR	11.6	16.08	7.1
15:14	310	7.45	1214	10	E3	NR	11.6	16.08	9.0
15:17 ~~15:14~~ TC 7/12	310	7.45	1210	10	E3	TC 7/12	11.6	16.08	10.0
~~15:17~~ TC 7/12	~~310~~				0.0	<1.0 chemetrics			

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☒ N	1	250 mL pl		A	☐ Y ☒ N
1	500 mL pl		C	☐ Y ☒ N	2	40 mL	VOA	G	☐ Y ☒ N
1	500 mL pl		B	☒ Y ☐ N					☐ Y ☐ N
1	250 mL pl		A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: FedEx courier	DATE SHIPPED: 7/12/07 - 7/16/07	AIRBILL NUMBER: 8619 3194 5495
COC NUMBER: STL/CT Labs	SIGNATURE: [illegible]	DATE SIGNED: 7-12-07

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PAGE _____ OF _____

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: TTZ NRK DATE: 7/12/07	BY: LJB DATE: 5/24/07

SAMPLE ID: MW-10A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 15:43	DATE: 7-12-07	SAMPLE	TIME: 16:14	DATE: 7-12-07

PURGE METHOD: ☒ PUMP bladder (dedicated) ☐ BAILER

PH: 7.65 SU CONDUCTIVITY: 780 umhos/cm

ORP: -81 mv DO: <1.0 mg/L Chemmette

DEPTH TO WATER: 17.88 T/ PVC

TURBIDITY: 0.98 NTU

DEPTH TO BOTTOM: NA T/ PVC

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

TEMPERATURE: 11.5 °C ODOR: none

VOLUME REMOVED: 2.6 ☐ LITERS ☒ GALLONS

COLOR: colorless ODOR: none

COLOR: Colorless ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

TURBIDITY:

FILTRATE COLOR: Colorless FILTRATE ODOR: none

☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY

QC SAMPLE: ☐ MS/MSD ☐ DUP-

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

COMMENTS: to leachate tank.

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
15:43	240	NR	NR	NR	NR	NR	NR	17.88	INITIAL
15:49	240	8.20	733	-119	E3	NR	12.4	17.95	1.44
15:51	240	7.79	776	-103	E3	NR	12.4	17.90	1.92
15:58	~~240~~	7.69	786	-79	E3	NR	11.9	17.90	3.60
16:09	400 400	7.69	786	-80	E3	1.75	11.8	17.90	8.0
16:11	400	7.69	781	-80	E3	1.24	11.7	17.90	8.8
16:14	400	7.65	780	-81	E3	0.98	11.5	17.90	10.0

TC 7/12

Chemmette D.O. = <1.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☒ N	1	250 ml	pl	A	☐ Y ☒ N
1	500 ml	pl	C	☐ Y ☒ N	2	40 ml	VOA	E	☐ Y ☒ N
1	500 ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☒ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex / Courier	DATE SHIPPED: 7/12/07 7/16/07	AIRBILL NUMBER: 8619 3194 5795
COC NUMBER: STL & CT Labs	SIGNATURE: [signature]	DATE SIGNED: 7-12-07

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: THC NRK DATE: 7-10-07	BY: LSH DATE: 8/24/07

SAMPLE ID: MW-11A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 17:00	DATE: 7-13-07

PURGE METHOD: ☒ PUMP dedicated bladder ☐ BAILER

DEPTH TO WATER: 8.67 T/ PVC

DEPTH TO BOTTOM: NM T/ PVC

WELL VOLUME: N/A ☐ LITERS ☐ GALLONS

VOLUME REMOVED: 4.7 ☐ LITERS ☒ GALLONS

COLOR: dk greyish brown ODOR: sulfur

TURBIDITY: V. turbid, sand in discharge

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER

SAMPLE	TIME: 18:11	DATE: 7-12-07

PH: ~~8.80~~ 8.85 SU CONDUCTIVITY: ~~595~~ umhos/cm

ORP: -154 mV DO: NR mg/L (ESD 12/7/12)

TURBIDITY: ~~154~~ NTU → NR

☐ NONE ☐ SLIGHT ☐ MODERATE ☒ VERY

TEMPERATURE: 11.5 °C ODOR:

COLOR: grayish brown ODOR: none

FILTRATE (0.45 um) ☒ YES ☐ NO

FILTRATE COLOR: lt. brown FILTRATE ODOR: none

QC SAMPLE: ☐ MS/MSD ☐ DUP-

COMMENTS: to leachate tank

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
17:00	~~480~~	NR	NR	NR	NR	NR	NR	8.63	INITIAL
17:03	100	NR	NR	NR	E3/NR	NR	NR	10.13	1.44
17:06	280	8.92	685	-150	E3/NR	NR	10.4	10.12	1.73
17:09	280	8.90	699	-153	E3/NR	NR	11.9	10.22	2.57
17:11	280	8.95	663	-148	E3	NR	11.7	10.28	3.13
17:15	~~280~~ 240	8.83	651	-149	E3	NR	11.6	10.33	4.25
17:16	~~280~~ 240	NR	NR	NR	NR	NR	NR	10.26	4.49
17:19	240	8.81	613	-154	E3	NR	11.5	10.23	5.21
17:21	240	8.80	606	-149	E3	NR	11.5	10.25	5.69
17:23	240	8.80	595	-149	E3	NR	11.5	~~10.2~~ NR	6.17

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N	1	250 ml	pl	A	☐ Y ☒ N
1	500 ml	pl	C	☐ Y ☐ N	2	250 ml	VOA	E	☐ Y ☒ N
1	250 ml	pl	B	☒ Y ☐ N					☐ Y ☐ N
1	250 ml	pl	A	☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx/courier	DATE SHIPPED: 7/12/07 & 7/16/07	AIRBILL NUMBER: 8619 3194 5795
COC NUMBER: STL & CT labs	SIGNATURE: [signature]	DATE SIGNED: 7-12-07

REVISED 01/2007

RMT

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 7-12-07	BY: LJM DATE: 4/24/07

TTC

SAMPLE ID: MW-11A

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
17:27	240	8.79	555	-145	E3	NR	11.6	10.26	7.13
17:33	240	8.80	540	-149	E3	NR	11.6	10.30	8.57
17:40 ~~17:40~~	240	8.80	513	-151	E3	NR	11.5	10.31	10.25
17:44	240	8.81	500	-153	E3	NR	11.6	10.33	11.21
17:53	240	8.83	485	-153	E3	NR	11.5	10.37	13.37
17:55	240	8.83	480	-157	E3	NR	11.5	10.40	13.85
18:03	240	8.84	465	-154	E3	NR	11.5	NR	15.77
18:07	240	8.84	462	-155	E3	NR	11.4	10.42	16.73
18:11	240	8.85	451	-154	E3	v. turbid.	11.5	10.43	17.69

TC 7/12

SIGNATURE: TTC 7-12-07

DATE SIGNED: _____

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: THR DATE: 9-19-07

SAMPLE ID: Pond D East WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12 10	DATE: 8/16/07	SAMPLE	TIME: 12 35	DATE: 8/16/07
PURGE METHOD: ☑ PUMP ~12 GPM ☐ BAILER			PH: 7.76 SU	CONDUCTIVITY: 658 umhos/cm	
			ORP: 103 mv	DO: 4.60 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM: — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.8 °C	ODOR:	
VOLUME REMOVED: 190 ☐ LITERS ☒ GALLONS			COLOR: None	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR:	FILTRATE ODOR:	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS: —		

1 15 / 1 / 30 / 150 (190)

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

* Chemicals in bldg next to tarp for sprayed dump trucks so asphalt does not stick. No odor outside bldg.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 933270303 4246

COC NUMBER: CT Labs SIGNATURE: Catherine M Kelly DATE SIGNED: 8/22/07

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TH DATE: 9-19-07

SAMPLE ID: MW03A WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER

WELL MATERIAL: ☒ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1755	DATE: 8/16/07	SAMPLE	TIME: 1840	DATE: 8/16/07
PURGE METHOD: ☒ PUMP Dedi bladder ☐ BAILER			PH: 8.66 SU	CONDUCTIVITY: 397 umhos/cm	
			ORP: -141 mv	DO: 0.19 mg/L	
DEPTH TO WATER: 17.10 T/ PVC			TURBIDITY: 85 NTU		
DEPTH TO BOTTOM: ——— T/ PVC			☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: ——— ☐ LITERS ☐ GALLONS			TEMPERATURE: 14.2 °C	ODOR:	
VOLUME REMOVED: 16.75 ☒ LITERS ☐ GALLONS			COLOR: Colorless	ODOR:	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: ———	FILTRATE ODOR: ———	
☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☒ MS/MSD ☐ DUP: ———		
DISPOSAL METHOD ☐ GROUND ☒ DRUM ☐ OTHER			COMMENTS: ———		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1755	750 ml/min	8.60	411	-2	1.33	—	11.7	17.10	INITIAL
1800	↓	8.59	407	-98	0.25	—	11.4	22.35	3.75
1805	↓	8.57	404	-77	0.16	—	11.4	27.31	7.5
1810	↓	8.58	406	-92	0.13	—	11.4	31.51	11.25
1815	160	8.59	403	-97	0.15	—	12.4	32.90	12.0
1820	140	8.59	401	-99	0.16	—	11.6	33.10	12.75
1825	500	8.62	399	-110	0.15	—	11.3	35.57	15.25
1830	100	8.63	397	-133	0.17	—	14.0	35.75	15.75
1835	80	8.67	395	-135	0.18	—	14.2	35.52	16.25
1840	↓	8.66	397	-141	0.19	85	14.2	35.20	16.75
1850									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034246

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 8/22/07

REVISED 01/2007

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TH DATE: 9-19-07

SAMPLE ID: Pries WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER NK 8/7/07

PURGING	TIME: 1640	DATE: 8/16/07	SAMPLE	TIME: ~~[illegible]~~ 1655	DATE: 8/16/07

PURGE METHOD: ☒ PUMP ~12 GPM ☐ BAILER	PH: 7.66 SU CONDUCTIVITY: 613 umhos/cm ORP: -107 mv DO: 1.52 mg/L
DEPTH TO WATER: — T/ PVC	TURBIDITY: — NTU
DEPTH TO BOTTOM: — T/ PVC	☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: — ☐ LITERS ☐ GALLONS	TEMPERATURE: 14.8 °C ODOR:
VOLUME REMOVED: 180 ☐ LITERS ☒ GALLONS	COLOR: Colorless ODOR: None
COLOR: colorless ODOR: None	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY:	~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QC SAMPLE: ☐ MS/MSD ☒ DUP 01
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
4	+	+	+	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	FedEX	DATE SHIPPED:	8/20/07	AIRBILL NUMBER:	932703034246
COC NUMBER:	CT Labs	SIGNATURE:	[signature]	DATE SIGNED:	8/22/07

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: THz DATE: 9-19-07

SAMPLE ID: Heavy Berry WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ~~Steel~~ ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1610	DATE: 8/16/07	SAMPLE	TIME: 1625	DATE: 8/16/07

PURGE METHOD: ☒ PUMP ~ 10 GPM ☐ BAILER

PH: 7.90 SU CONDUCTIVITY: 554 umhos/cm

ORP: -146 mv DO: 3.49 mg/L

DEPTH TO WATER: — T/ PVC

DEPTH TO BOTTOM: — T/ PVC

TURBIDITY: — NTU

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

WELL VOLUME: — ☐ LITERS ☐ GALLONS

TEMPERATURE: 12.8 °C ODOR:

VOLUME REMOVED: 150 ☐ LITERS ☐ GALLONS

COLOR: Colorless ODOR: Slt Sulfur

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) ☐ YES ☒ NO

TURBIDITY: Slt Sulfur

~~FILTRATE COLOR:~~ FILTRATE ODOR:

☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY

QC SAMPLE: ~~☐ MS/MSD~~ ~~☐ DUP~~

DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES

A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 8/22/07

REVISED 01/2007

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TAC DATE: 9-19-07

SAMPLE ID: P and D West WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1537	DATE: 8/16/07	SAMPLE	TIME: 1552	DATE: 8/16/07
PURGE METHOD: ☒ PUMP ~10 GPM ☐ BAILER			PH: 7.57 SU	CONDUCTIVITY: 551 umhos/cm	
			ORP: -81 mv	DO: 1.42 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM: — T/ PVC			☐ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 19.8 °C	ODOR:	
VOLUME REMOVED: 150 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ☐ MS/MSD	☐ DUP-	
DISPOSAL METHOD ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

* Sampled Near asphalt tap, water appeared carbonated very bubbly on low flow fill, asphalt odor in area.

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 8/20/07	AIRBILL NUMBER: 9327030342 46
COC NUMBER: CT Labs	SIGNATURE: [signature]	DATE SIGNED: 8/22/07

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WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TH DATE: 9-19-07

SAMPLE ID: GW07 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☒ OTHER _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER _____

pumped 700 GPM ✓

PURGING	TIME: 1505	DATE: 8/16/07	SAMPLE	TIME: 1520	DATE: 8/16/07
PURGE METHOD: ☒ PUMP ☐ BAILER			PH: 7.40 SU	CONDUCTIVITY: 723 umhos/cm	
			ORP: -122 mv	DO: 0.15 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 0 NTU		
DEPTH TO BOTTOM — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 10.8 °C	ODOR: —	
VOLUME REMOVED: — ☐ LITERS ☐ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: —	FILTRATE ODOR: —	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☒ MS/MSD ☐ DUP. —		
DISPOSAL METHOD ☐ GROUND ☐ DRUM ☒ OTHER Purge			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1505	~500	7.43	722	-114	0.28	1	10.5		INITIAL
1510	↓	7.40	723	-118	0.16	1	10.7		
1515	↓	7.40	723	-121	0.14	1	10.8		
1520	↓	7.40	723	-122	0.15	0	10.9		
		✓	✓	✓	✓		✓		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed EX DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034946

COC NUMBER: CT Labs SIGNATURE: Nathaniel Kelly DATE SIGNED: 8/22/07

REVISED 01/2007

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RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: [illegible] DATE: 9-19-07

SAMPLE ID: fw-36 WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

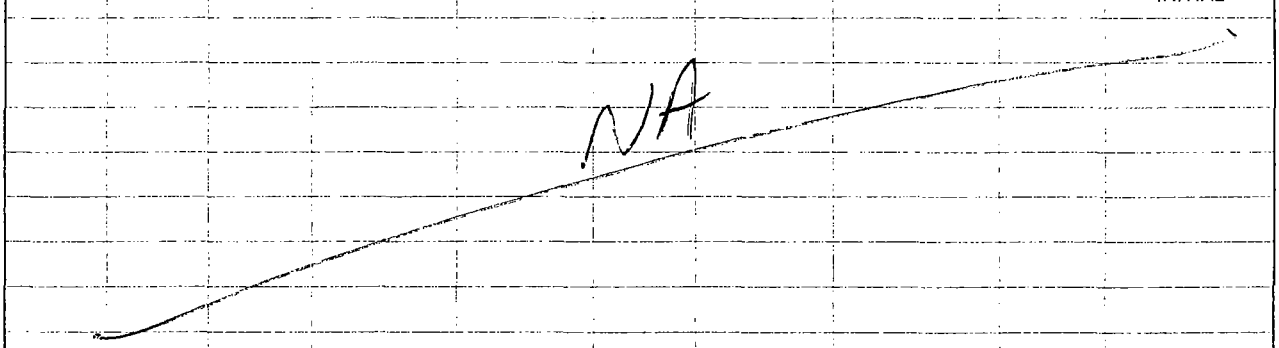
SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 2 30	DATE: 8/16/07	SAMPLE	TIME: 14 45	DATE: 8/16/07

PURGE METHOD: ☒ PUMP ~11 GPM ☐ BAILER	PH: 7.80 SU CONDUCTIVITY: 539 umhos/cm ORP: -121 mv DO: 2.66 mg/L
DEPTH TO WATER: — T/ PVC	TURBIDITY: — NTU
DEPTH TO BOTTOM: — T/ PVC	☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: — ☐ LITERS ☐ GALLONS	TEMPERATURE: 12.3 °C ODOR:
VOLUME REMOVED: 165 ☐ LITERS ☒ GALLONS	COLOR: Colorless ODOR: None
COLOR: Colorless ODOR: None	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	~~FILTRATE COLOR:~~ ~~FILTRATE ODOR:~~ ~~QC SAMPLE: ☐ MS/MSD ☐ DUP-~~
DISPOSAL METHOD: ☒ GROUND ☒ DRUM ☐ OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA



NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD:	Fed EX	DATE SHIPPED:	8/20/07	AIRBILL NUMBER:	93270303
COC NUMBER:	CT Labs	SIGNATURE:	[signature]	DATE SIGNED:	4246

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TH DATE: 9-19-07

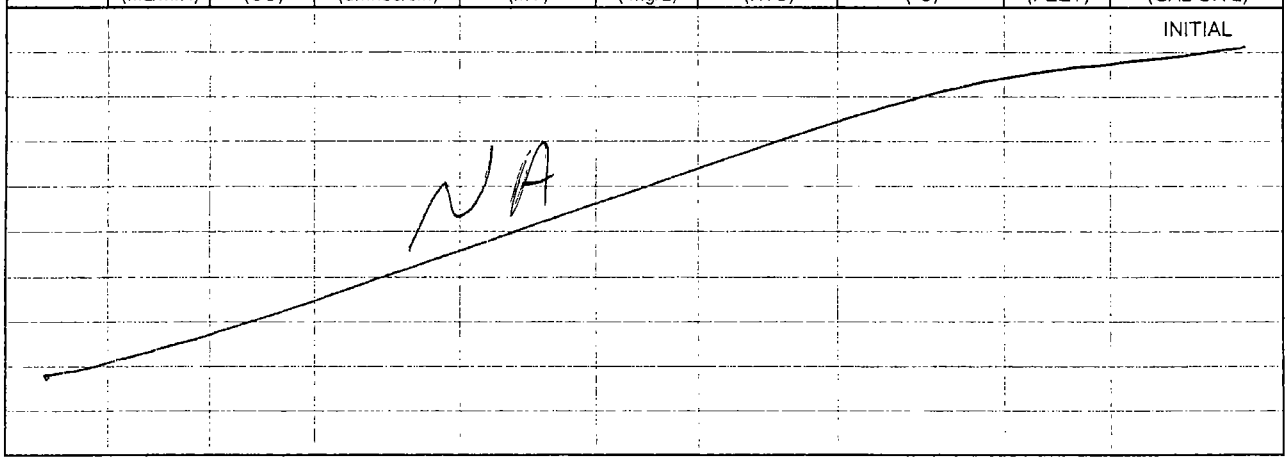
SAMPLE ID: Davis WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☒ OTHER unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1400	DATE: 8/16/07	SAMPLE	TIME: 1415	DATE: 8/16/07
PURGE METHOD: ☒ PUMP ~10 GPM ☐ BAILER			PH: 7.68 SU	CONDUCTIVITY: 661 umhos/cm	
			ORP: 1 mv	DO: 2.88 mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM: _____ T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 13.6 °C	ODOR:	
VOLUME REMOVED: 150 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR: None	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY:			FILTRATE COLOR: —	FILTRATE ODOR: —	
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			QC SAMPLE: ☐ MS/MSD ☐ DUP.		
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL



NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703054246

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 8/22/07

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 5/10/02	BY: TM DATE: 9-19-07

SAMPLE ID: ~~Bishop~~ PW-37 WELL DIAMETER: ☐ 2" ☐ 4" ☒ 6" ☐ OTHER

WELL MATERIAL: ☐ PVC ☐ SS ☒ IRON ☐ GALVANIZED STEEL ☐ OTHER

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 12 52	DATE: 8/16/07	SAMPLE	TIME: 13 07	DATE: 8/16/07

PURGE METHOD: ☒ PUMP ~ 10 GPM ☐ BAILER	PH: 7.20 SU CONDUCTIVITY: 507 umhos/cm ORP: 20 mv DO: 2.90 mg/L
DEPTH TO WATER: — T/ PVC	TURBIDITY: — NTU Black & lakes
DEPTH TO BOTTOM: — T/ PVC	☐ NONE ☒ SLIGHT ☐ MODERATE ☐ VERY
WELL VOLUME: — ☐ LITERS ☐ GALLONS	TEMPERATURE: 14.5 °C ODOR:
VOLUME REMOVED: 150 ☐ LITERS ☒ GALLONS	COLOR: Colorless ODOR: None
COLOR: colorless ODOR: None	FILTRATE (0.45 um) ☐ YES ☒ NO
TURBIDITY:	FILTRATE COLOR: FILTRATE ODOR:
☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY	QC SAMPLE: ☐ MS/MSD ☐ DUP-
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NA

Informed me that he had ~~scho~~ shocked his well approximately 3 weeks prior and has been finding a lot of black particles in his filt

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx	DATE SHIPPED: 8/20/07	AIRBILL NUMBER: 932703034046			
COC NUMBER: CT labs	SIGNATURE: [signature]	DATE SIGNED: 8/20/07			

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TH DATE: 9-14-07

SAMPLE ID: Seybold WELL DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☒ OTHER unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☒ OTHER unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1132	DATE: 8/16/07	SAMPLE	TIME: 1152	DATE: 8/16/07
PURGE METHOD: ☒ PUMP ~10 GPM ☐ BAILER			PH: 7.29 SU	CONDUCTIVITY: 583 umhos/cm	
			ORP: 14 mv	DO: 2.27 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: 2 NTU		
DEPTH TO BOTTOM: — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 15.2 °C	ODOR:	
VOLUME REMOVED: 200 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR:	
COLOR: Colorless ODOR: None			FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			~~FILTRATE COLOR:~~	~~FILTRATE ODOR:~~	
			~~QC SAMPLE: ☐ MS/MSD~~	~~☐ DUP~~	
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

N/A

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO_3 C - H_2SO_4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: Fed Ex DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034046

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 8/21/07

REVISED 01/2007

RMT

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: THZ DATE: 9-19-07

SAMPLE ID: MW08A WELL DIAMETER: [X] 2" [ ] 4" [ ] 6" [ ] OTHER

WELL MATERIAL: [X] PVC [ ] SS [ ] IRON [ ] GALVANIZED STEEL [ ] OTHER

SAMPLE TYPE: [X] GW [ ] WW [ ] SW [ ] DI [ ] LEACHATE [ ] OTHER

PURGING	TIME: 1037	DATE: 8/16/07	SAMPLE	TIME: 1120	DATE: 8/16/07

PURGE METHOD: [X] PUMP [ ] BAILER

DEPTH TO WATER: 29.70 T/ PVC

DEPTH TO BOTTOM: — T/ PVC

WELL VOLUME: — [ ] LITERS [ ] GALLONS

VOLUME REMOVED: 22.75 [X] LITERS [ ] GALLONS

COLOR: Colorless ODOR: None

TURBIDITY: [X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

DISPOSAL METHOD: [ ] GROUND [X] DRUM [ ] OTHER

PH: 7.56 SU CONDUCTIVITY: 803 umhos/cm

ORP: -124 mv DO: 0.21 mg/L

TURBIDITY: 4 NTU

[X] NONE [ ] SLIGHT [ ] MODERATE [ ] VERY

TEMPERATURE: 10.9 °C ODOR: —

COLOR: Colorless ODOR: None

FILTRATE (0.45 um) [ ] YES [X] NO

FILTRATE COLOR: — FILTRATE ODOR:

~~QC SAMPLE: [ ] MS/MSD [ ] DUP-~~

COMMENTS:

8/16/07 NRK 750 7750

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1040	~~600~~ ml/min	7.41	726	155	2.75	13	12.2	29.75	INITIAL NRK
1050	1L	7.47	766	-133	0.25	2	10.8	29.72	~~3L~~ 3.75L
1100	↓	7.53	788	-137	0.20	6	10.8	29.73	8.75L
1105	↓	7.53	798	-135	0.17	3	10.8	29.74	13.75L
1110	↓	7.52	805	-133	0.18	4	10.8	29.72	18.75
1115	400ml/min	7.54	804	-129	0.19	3	10.88	29.71	20.75
1120	↓	7.56	803	-124	0.21	4	10.9	29.70	22.75
		✓	✓	✓	✓	✓	✓	✓	✓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	[ ] Y [✓] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N
				[ ] Y [ ] N					[ ] Y [ ] N

SHIPPING METHOD: Fed EX DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034246

COC NUMBER: CT Labs SIGNATURE: [signature] DATE SIGNED: 8/22/07

REVISED 01/2007

WATER SAMPLE LOG

PROJECT NAME: MSGRG EGM-II	PREPARED	CHECKED
PROJECT NUMBER: 7133.03	BY: NRK DATE: 8/16/07	BY: TJR DATE: 9-19-07

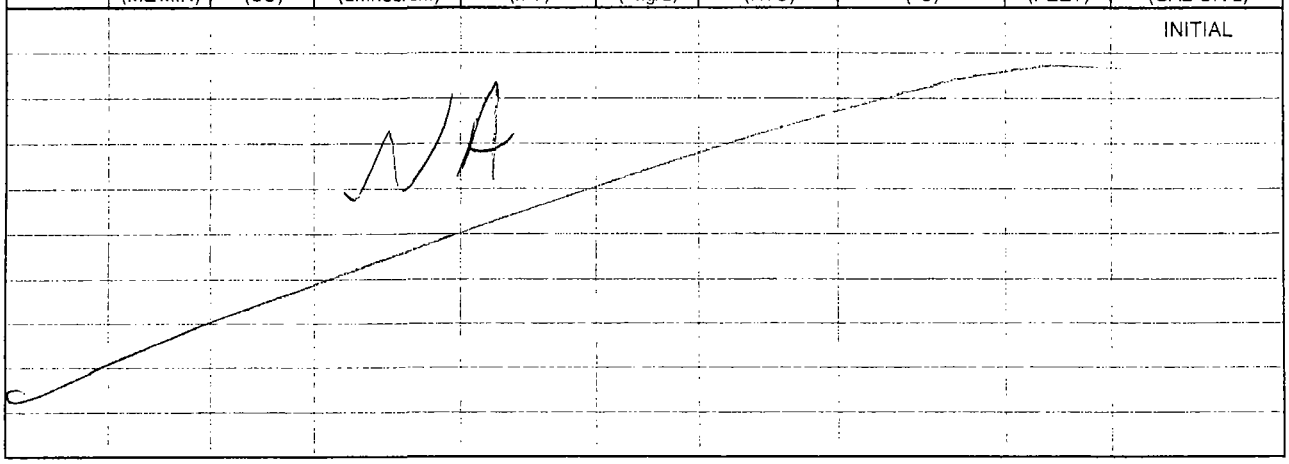
SAMPLE ID: PW-35 WELL DIAMETER: ☐ 2" ☐ 4" ☐ 6" ☒ OTHER unknown

WELL MATERIAL: ☐ PVC ☐ SS ☐ IRON ☐ GALVANIZED STEEL ☒ OTHER unknown

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DI ☐ LEACHATE ☐ OTHER

PURGING	TIME: 1330	DATE: 8/16/07	SAMPLE	TIME: 1345	DATE: 8/16/07
PURGE METHOD: ☐ PUMP ~10 GPM ☐ BAILER			PH: 7.89 SU	CONDUCTIVITY: 510 umhos/cm	
			ORP: -148 mv	DO: 2.38 mg/L	
DEPTH TO WATER: — T/ PVC			TURBIDITY: — NTU		
DEPTH TO BOTTOM: — T/ PVC			☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY		
WELL VOLUME: — ☐ LITERS ☐ GALLONS			TEMPERATURE: 12.9 °C	ODOR:	
VOLUME REMOVED: 150 ☐ LITERS ☒ GALLONS			COLOR: Colorless	ODOR:	
COLOR: Colorless	ODOR: None		FILTRATE (0.45 um) ☐ YES ☒ NO		
TURBIDITY: ☒ NONE ☐ SLIGHT ☐ MODERATE ☐ VERY			FILTRATE COLOR:	FILTRATE ODOR:	
			QC SAMPLE: ~~☐ MS/MSD~~ ~~☐ DUP~~		
DISPOSAL METHOD: ☒ GROUND ☐ DRUM ☐ OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL



NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ORP: +/- 10 D.O.: +/- 10 % TURB: +/- 10 % or </= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED

PRESERVATIVE CODES: A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
4	40 mL	VOA	E	☐ Y ☑ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N
				☐ Y ☐ N					☐ Y ☐ N

SHIPPING METHOD: FedEx DATE SHIPPED: 8/20/07 AIRBILL NUMBER: 932703034246

COC NUMBER: CT labs SIGNATURE: [signature] DATE SIGNED: 8/22/07

REVISED 01/2007

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Appendix L
Water Quality - Supplementary Tables and Laboratory Reports

Table L-1
Filtered and Unfiltered Test Results

PARAMETER	UNITS	LOW TURBIDITY SAMPLE			HIGH TURBIDITY SAMPLE		
		MW01 (unfiltered)	MW01 (filtered)	PERCENT REMAINING (filtered/unfiltered)	MW03A (unfiltered) (03A1) [4]	MW03A (filtered) (03A2) [4]	PERCENT REMAINING (filtered/unfiltered)
Aluminum	µg/L	1,340	< 26.0	0% [1]	82,500	15,700	19%
Antimony	µg/L	< 0.27	< 0.27	NA [2]	< 0.27	1.7	NA [3]
Arsenic	µg/L	1.4	1.6	114%	< 0.28	3.3	NA [3]
Barium	µg/L	247	233	94%	463	124	27%
Beryllium	µg/L	< 0.080	< 0.080	NA [2]	0.39	0.79	203%
Cadmium	µg/L	< 0.050	< 0.050	NA [2]	0.38	0.086 J	23%
Calcium	mg/L	116	109	94%	183	50.0	27%
Chromium	µg/L	1.3 J	< 0.44	0%	76.9	16.1	21%
Cobalt	µg/L	0.90 J	< 0.79	0%	25.9	6.3	24%
Copper	µg/L	< 0.83	< 0.83	NA [2]	62.7	14.7	23%
Iron	µg/L	3,080	1,960	64%	64,000	13,800	22%
Lead	µg/L	0.43	< 0.10	0%	9.4	10	106%
Magnesium	mg/L	70.5	67.3	95%	91.7	24.5	27%
Manganese	µg/L	37.2	21.5	58%	921	228	25%
Mercury	µg/L	< 0.11	< 0.11	NA [2]	< 0.11	< 0.11	NA [2]
Nickel	µg/L	5.7	2.8 J	49%	78.1	18.8	24%
Potassium	mg/L	3.7	2.9	78%	25.7	8.9	35%
Selenium	µg/L	< 0.44	< 0.44	NA [2]	< 0.44	< 0.44	NA [2]
Silver	µg/L	1.5 J	< 0.90	0%	< 0.90	< 0.90	NA [2]
Sodium	mg/L	140	136	97%	132	126	95%
Thallium	µg/L	< 0.080	< 0.080	NA [2]	0.11 J	0.12 J	109%
Vanadium	µg/L	2.1 J	< 0.98	0%	88.4	19.3	22%
Zinc	µg/L	< 3.6	< 3.6	NA [2]	239	62.0	26%

Notes:

[1] Metal concentration was reduced to below the detection limit in the filtered sample; concentration assumed to be "0" for calculation.

[2] Relative concentrations cannot be determined; therefore, the calculation is not applicable.

[3] Based on the unfiltered sample results, detection of metals in filtered sample may be false positive results; therefore, the calculation was not performed.

[4] MW03A unfiltered sample is denoted MW03A1 in sample logs, MW03A2 denotes the filtered sample

Table L-2

2006 - 2007 Major Ion Balance

May 2006													
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	BALANCE	COMMENT
CW7	0.50	0.46	0.81	0.02	1.79	0.00	5.41	0.45	1.12	6.98	8.77	59%	Low Ca & Mg by 10X
E135A	5.14	4.23	1.66	0.15	11.18	0.01	6.46	2.04	1.07	9.57	20.75	8%	
E135B	3.96	2.67	0.70	0.09	7.42	0.00	4.00	1.15	0.87	6.03	13.45	10%	
E137A	6.69	7.12	3.64	0.14	17.58	0.01	9.18	3.81	1.13	14.13	31.71	11%	
E137B	4.85	4.67	3.47	0.98	13.97	0.01	9.34	4.60	0.11	14.06	28.03	0%	
E93D	4.88	4.69	6.18	0.11	15.86	0.01	8.47	5.95	0.69	15.12	30.98	2%	
MW01	6.89	6.49	5.70	0.20	19.28	0.00	5.69	10.61	0.83	17.13	36.41	6%	
MW01A	5.29	5.06	4.87	0.09	15.31	0.01	7.18	6.04	0.60	13.82	29.13	5%	
MW01B	0.71	0.86	1.63	0.02	3.22	0.00	5.03	0.09	0.26	5.39	8.61	25%	High Sediment
MW02	5.29	6.77	1.24	0.06	13.36	0.01	8.03	0.17	3.54	11.75	25.11	6%	
MW03	5.69	5.74	8.18	0.10	19.71	0.00	4.88	18.31	0.39	23.59	43.30	9%	
MW03A	15.67	12.34	6.44	0.88	35.33	0.00	2.52	1.46	1.20	5.18	40.52	74%	High Sediment
MW04	5.39	5.32	4.87	0.14	15.72	0.01	9.65	5.11	0.63	15.39	31.12	1%	
MW04A	1.44	1.15	3.25	0.21	6.05	0.01	12.29	0.32	1.65	14.27	20.32	40%	High Sediment
MW05	5.19	4.87	4.21	0.10	14.37	0.01	7.83	4.99	0.81	13.64	28.02	3%	
MW06	3.01	3.70	0.57	0.04	7.33	0.00	5.33	1.22	0.64	7.18	14.52	1%	
MW07	6.19	6.00	3.19	0.08	15.46	0.00	5.62	6.91	1.04	13.58	29.04	6%	
P64C	5.34	4.77	3.55	0.10	13.75	0.01	7.80	2.44	1.14	11.38	25.14	9%	
Seybold	1.30	1.12	1.36	0.05	3.83	0.00	3.16	0.08	0.22	3.47	7.30	5%	
Thiele	4.60	4.97	4.92	0.07	14.55	0.00	5.56	10.21	0.60	16.38	30.93	6%	

Table L-2 (continued)
2006 - 2007 Major Ion Balance

June 2006													
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	BALANCE	COMMENT
Co. Park 2	4.07	4.08	0.41	0.05	8.61	0.00	5.31	0.79	1.64	7.75	16.36	5%	
CW 7	4.04	4.15	0.26	0.04	8.48	0.00	4.57	0.46	1.11	6.15	14.63	16%	
E135A	5.34	4.27	1.99	0.17	11.77	0.01	7.06	2.51	0.88	10.45	22.22	6%	
E135B	3.73	2.43	0.67	0.08	6.91	0.00	3.92	1.17	0.85	5.94	12.85	8%	
E137A	5.84	6.28	3.62	0.13	15.87	0.01	7.92	3.95	1.13	13.01	28.87	10%	
E137B	4.52	4.31	3.36	0.90	13.09	0.01	9.15	4.18	0.14	13.47	26.55	1%	
E93D	4.99	4.81	6.48	0.12	16.40	0.01	7.67	6.15	0.76	14.59	30.99	6%	
MW01	5.79	5.80	6.09	0.09	17.77	0.00	5.41	10.72	0.83	16.96	34.74	2%	
MW01A	5.29	5.06	4.96	0.09	15.40	0.01	7.23	6.07	0.39	13.68	29.08	6%	
MW01B	0.71	0.86	1.66	0.02	3.24	0.00	2.15	0.08	0.25	2.48	5.72	13%	High Sediment
MW02	4.62	6.16	1.16	0.05	11.99	0.01	7.05	0.13	2.96	10.14	22.13	8%	
MW03	5.19	5.06	7.70	0.08	18.03	0.00	4.82	16.47	0.47	21.76	39.80	9%	
MW03A	9.13	7.55	5.74	0.66	23.08	0.00	3.47	0.81	0.95	5.23	28.31	63%	High Sediment
MW04	6.09	5.80	4.61	0.14	16.64	6.63	8.88	0.71	0.63	16.85	33.49	1%	
MW04A	1.55	1.18	3.23	0.16	6.12	0.00	2.80	0.30	1.77	4.88	11.00	11%	High Sediment
MW05	5.39	5.13	4.52	0.11	15.16	0.01	7.11	5.28	0.81	13.21	28.36	7%	
MW06	2.91	3.58	0.55	0.04	7.09	0.00	4.75	1.19	0.61	6.56	13.65	4%	
MW07	5.59	5.33	3.25	0.08	14.24	0.00	5.88	6.60	1.12	13.61	27.85	2%	
P64C	4.71	4.16	3.25	0.09	12.20	0.01	6.82	2.09	1.24	10.15	22.36	9%	
Seybold	1.51	1.31	1.56	0.06	4.43	0.00	3.00	0.08	0.22	3.30	7.74	15%	
Thiele	4.38	4.73	4.70	0.07	13.87	0.00	3.79	10.52	0.62	14.93	28.80	4%	

Table L-2 (continued)

2006 - 2007 Major Ion Balance

June 2007													
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	BALANCE	COMMENT
CW07	3.74	3.83	0.24	0.04	7.84	0.00	6.98	0.56	1.37	8.91	16.75	6%	
E093D	4.93	4.84	5.61	0.00	15.38	0.00	9.26	5.30	0.77	15.33	30.71	0%	
E093D	4.93	4.84	5.61	0.00	15.38	0.00	9.64	5.30	0.77	15.71	31.09	1%	
E135A	0.52	4.73	2.86	0.17	8.29	0.00	9.28	3.81	0.70	13.79	22.08	25%	Calcium low by 10x
E135B	4.04	2.81	0.95	0.10	7.90	0.00	5.74	1.75	1.00	8.49	16.39	4%	
E137A	5.49	6.11	3.05	0.10	14.75	0.00	8.79	3.72	1.99	14.51	29.26	1%	
E137B	4.82	4.72	3.65	0.70	13.89	0.00	9.51	4.57	0.64	14.72	28.61	3%	
E140A	8.38	4.25	2.00	0.00	14.64	0.00	9.16	2.48	3.23	14.87	29.51	1%	
MW01	5.44	5.55	5.83	0.07	16.89	0.00	7.49	11.59	0.98	20.07	36.96	9%	
MW01A	5.19	4.92	4.83	0.08	15.02	0.00	8.29	5.92	0.95	15.17	30.18	0%	
MW01B	0.67	0.86	1.63	0.02	3.17	0.00	2.92	0.12	0.32	3.35	6.53	3%	
MW02	4.48	6.42	0.87	0.05	11.81	0.00	7.97	0.17	2.96	11.10	22.91	3%	
MW03	4.99	4.98	8.13	0.08	18.18	0.00	4.93	13.68	0.52	19.13	37.32	3%	
MW03A	0.31	0.39	3.87	0.07	4.63	0.00	2.95	0.27	0.91	4.13	8.77	6%	
MW-03A	0.30	0.00	3.63	0.00	3.94	0.00	3.67	0.19	0.84	4.70	8.63	9%	
MW04	6.09	5.60	4.03	0.00	15.72	0.00	10.26	5.28	0.40	15.94	31.66	1%	
MW05	4.96	4.77	4.03	0.00	13.76	0.00	8.41	4.82	0.85	14.09	27.85	1%	
MW06	2.94	3.58	0.57	0.04	7.13	0.00	5.59	1.23	0.71	7.53	14.66	3%	
MW07	5.24	5.16	3.22	0.07	13.70	0.00	7.18	6.80	1.20	15.18	28.87	5%	
MW07S	2.04	2.98	2.44	0.04	7.49	0.00	4.61	0.14	3.83	8.58	16.07	7%	
MW08A	2.80	3.94	0.96	0.04	7.75	0.00	4.25	0.43	2.66	7.34	15.09	3%	
MW09	3.65	4.93	4.12	0.08	12.78	0.00	5.34	8.21	0.65	14.21	26.99	5%	
MW10	4.80	4.82	2.62	0.06	12.30	0.00	6.97	6.07	1.00	14.03	26.34	7%	
MW10A	2.91	4.82	0.81	0.06	8.61	0.00	4.67	1.20	2.17	8.04	16.65	3%	
MW11A	0.15	0.12	5.13	0.04	5.43	0.00	4.69	0.33	1.29	6.31	11.74	7%	
MW13A	3.09	3.13	1.27	0.10	7.60	0.00	5.82	1.90	1.00	8.72	16.31	7%	
MW13S	2.99	2.95	1.67	0.04	7.66	0.00	4.61	2.46	0.82	7.89	15.55	2%	
MW14A	4.48	5.00	4.79	0.00	14.26	0.00	9.13	5.02	0.51	14.67	28.93	1%	
MW15A	5.89	5.34	3.56	0.12	14.91	0.00	10.06	4.23	1.12	15.41	30.32	2%	
MW17	0.41	0.27	3.43	0.04	4.15	0.00	1.98	0.28	1.94	4.21	8.35	1%	
MW17A	5.04	5.02	2.09	0.07	12.21	0.00	6.41	4.77	1.06	12.24	24.45	0%	
P064C	4.65	3.99	2.52	0.08	11.25	0.00	9.67	1.78	1.20	12.65	23.90	6%	
PW_AVITRANO	3.57	4.67	3.71	0.00	11.95	0.00	7.38	4.88	0.31	12.56	24.51	3%	
PW_M	4.45	4.88	3.53	0.00	12.86	0.00	6.57	7.90	0.84	15.31	28.18	9%	
PW-22	5.59	5.18	4.74	0.00	15.51	0.00	7.93	8.97	1.02	17.93	33.44	7%	
PZ_STAGECOAC	0.00	4.49	4.16	0.00	8.65	0.00	6.11	3.07	0.00	9.19	17.84	3%	
PZ_DYERA	2.94	3.59	0.90	0.00	7.43	0.00	5.70	0.06	0.85	6.61	14.04	6%	
PZ_DYERA	2.46	3.86	2.46	0.00	8.78	0.00	7.29	1.57	1.91	10.77	19.54	10%	
PZ_MOOSE	4.39	2.64	1.10	0.00	8.13	0.00	6.26	1.72	0.80	8.78	16.91	4%	
E135A	5.19	4.73	2.86	0.17	12.96	0.00	9.28	3.81	0.70	13.79	26.75	3%	

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Table L-2 (continued)

2006 - 2007 Major Ion Balance

	June 2007												
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	BALANCE	COMMENT
MW_Dyer	2.46	3.86	2.46	0.00	8.78	0.00	7.29	0.06	1.91	9.26	18.04	3%	
MW_Dyer	2.33	3.74	2.37	0.00	8.44	0.00	6.10	0.06	1.86	8.03	16.47	3%	
PZ_Dyer	3.39	4.22	0.93	0.00	8.54	0.00	5.24	2.41	1.12	8.78	17.32	1%	
PZ_Moose	4.34	2.66	1.04	0.00	8.03	0.00	5.34	1.73	0.83	7.91	15.95	1%	
PZ_Stagecoach	2.96	4.93	3.98	0.00	11.87	0.00	8.56	2.62	1.13	12.30	24.18	2%	
PW_Mageske	3.29	5.45	3.48	0.00	12.22	0.00	4.79	6.46	0.64	11.89	24.11	1%	
PW_Moeller	5.59	5.34	4.70	0.00	15.63	0.00	7.38	7.19	1.04	15.61	31.24	0%	
PW_Vitrano	2.78	4.67	3.59	0.00	11.05	0.00	4.61	5.08	0.10	9.79	20.84	6%	

Table L-2 (continued)
2006 - 2007 Major Ion Balance

July 2007													
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	BALANCE	COMMENT
CW07	3.89	4.02	0.27	0.04	8.22	0.11	5.36	0.46	1.10	7.03	15.25	8%	
E135A	5.24	4.91	2.97	0.17	13.29	0.14	6.93	2.80	0.47	10.34	23.63	12%	
E135B	4.15	2.93	1.00	0.11	8.19	0.08	4.29	1.41	0.71	6.50	14.69	11%	
E137A	5.89	6.70	3.13	0.11	15.83	0.16	8.05	3.53	1.92	13.65	29.48	7%	
E137B	4.74	4.67	3.56	0.70	13.66	0.16	8.03	3.84	0.14	12.16	25.82	6%	
E93D	4.86	4.78	5.61	0.10	15.35	0.15	7.42	4.34	0.64	12.55	27.91	10%	
MW01	5.59	5.75	5.96	0.07	17.37	0.11	5.75	9.82	0.74	16.42	33.79	3%	
MW01A	5.29	5.15	4.79	0.08	15.31	0.14	7.21	5.61	0.75	13.72	29.03	5%	
MW01B	0.70	0.86	1.61	0.02	3.19	0.04	2.20	0.08	0.25	2.57	5.76	11%	
MW02	4.51	6.43	0.79	0.05	11.78	0.14	6.97	0.11	2.60	9.82	21.59	9%	
MW03	4.99	5.07	7.79	0.08	17.93	0.09	4.69	10.47	0.40	15.64	33.57	7%	
MW03A	0.31	0.40	3.82	0.06	4.59	0.06	3.00	0.18	0.56	3.79	8.39	10%	
MW04	6.29	5.78	0.00	0.12	12.18	0.18	9.19	4.49	0.38	14.24	26.43	8%	
MW05	4.93	4.75	4.00	0.09	13.77	0.14	7.26	3.81	0.80	12.01	25.78	7%	
MW06	2.93	3.62	0.60	0.04	7.18	0.08	3.92	1.04	0.58	5.62	12.80	12%	
MW07	5.39	5.37	3.42	0.08	14.25	0.11	5.75	5.50	0.90	12.26	26.52	8%	
MW07S	2.09	3.09	2.48	0.05	7.70	0.06	3.16	3.27	3.21	9.70	17.41	11%	
MW08A	2.74	5.10	0.77	0.04	8.66	0.09	4.62	0.30	2.37	7.39	16.05	8%	
MW09	3.71	5.13	4.12	0.00	12.95	0.10	5.06	7.81	0.59	13.56	26.52	2%	
MW10	4.77	4.80	2.60	0.00	12.16	0.10	5.26	4.71	0.75	10.83	22.99	6%	
MW10A	3.00	4.76	0.77	0.00	8.54	0.09	4.57	0.89	1.68	7.24	15.78	8%	
MW11A	0.44	0.00	0.00	0.00	0.44	0.06	3.20	0.28	0.71	4.25	4.68	81%	
MW13S	2.78	2.99	1.28	0.04	7.10	0.07	3.34	2.05	0.81	6.27	13.37	6%	
MW13A	3.60	3.51	1.18	0.07	8.36	0.09	4.49	1.92	0.92	7.42	15.78	6%	
MW14A	4.88	5.35	4.32	0.10	14.64	0.16	8.15	4.74	0.45	13.49	28.13	4%	
MW15A	5.89	5.53	3.49	0.13	15.04	0.17	8.70	1.93	0.92	11.72	26.76	12%	
MW17	0.46	0.32	3.26	0.06	4.10	0.03	1.60	0.27	1.55	3.45	7.55	9%	
MW17A	4.99	5.09	2.17	0.07	12.32	0.11	5.59	4.06	0.87	10.64	22.96	7%	
SW-1	2.13	2.71	1.65	0.06	6.55	0.06	3.08	2.39	1.03	6.56	13.11	0%	
E141A	7.93	4.09	1.86	0.00	13.88	0.15	7.38	2.96	2.98	13.46	27.34	2%	
P64C	4.82	4.18	2.52	0.00	11.52	0.16	7.85	1.59	1.15	10.74	22.26	3%	

L

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Table L-3
Major Ion Balance
2006 - 2007 Averages

AVERAGES													
LABEL	Ca(2+) (meq/L)	Mg(2+) (meq/L)	Na+ (meq/L)	K+ (meq/L)	SUM OF CATION	CO3(2-) (meq/L)	HCO3(2-) (meq/L)	Cl- (meq/L)	SO4(2-) (meq/L)	SUM OF ANION	TOTAL ION	ION BALANCE ERROR	COMMENT
CW07	3.81	3.93	0.26	0.04	8.03	0.05	6.17	0.51	1.23	7.97	16.00	7%	
E135A	5.22	4.41	2.17	0.16	11.97	0.00	7.60	2.78	0.88	11.27	23.24	6%	
E135B	3.91	2.64	0.77	0.09	7.41	0.00	4.55	1.36	0.91	6.82	14.23	7%	
E137A	5.98	6.55	3.36	0.12	16.01	0.04	8.48	3.75	1.55	13.82	29.83	7%	
E137B	4.73	4.59	3.51	0.82	13.65	0.04	9.01	4.29	0.26	13.60	27.25	3%	
E93D	4.92	4.78	5.97	0.08	15.75	0.04	8.21	5.44	0.71	14.40	30.15	5%	
MW01	5.93	5.90	5.89	0.11	17.83	0.03	6.08	10.68	0.85	17.65	35.47	5%	
MW01A	5.26	5.05	4.86	0.08	15.26	0.04	7.48	5.91	0.67	14.10	29.36	4%	
MW01B	0.69	0.86	1.62	0.02	3.18	0.02	2.56	0.10	0.28	2.96	6.14	7%	
MW02	4.72	6.44	1.01	0.05	12.23	0.04	7.50	0.15	3.01	10.70	22.94	7%	
MW03	5.21	5.21	7.95	0.09	18.46	0.03	4.83	14.73	0.44	20.03	38.50	7%	
MW03A	0.31	0.39	3.84	0.07	4.61	0.03	2.97	0.22	0.73	3.96	8.58	8%	
MW04	5.96	5.62	3.38	0.10	15.07	1.71	9.50	3.89	0.51	15.61	30.67	3%	
MW05	4.09	3.91	3.35	0.06	11.41	0.03	6.12	3.78	0.65	10.59	22.00	3%	
MW06	2.96	3.62	0.57	0.04	7.18	0.00	5.22	1.21	0.65	7.09	14.27	3%	
MW07	5.60	5.46	3.27	0.08	14.41	0.03	6.11	6.45	1.06	13.66	28.07	5%	
MW07S	2.04	2.98	2.44	0.04	7.49	0.00	4.61	0.14	3.83	8.58	16.07	7%	
MW08A	2.77	4.52	0.87	0.04	8.21	0.05	4.43	0.36	2.52	7.36	15.57	5%	
MW09	3.68	5.03	4.12	0.04	12.87	0.05	5.20	8.01	0.62	13.88	26.75	4%	
MW10	4.79	4.81	2.61	0.03	12.23	0.05	6.11	5.39	0.88	12.43	24.67	6%	
MW10A	2.96	4.79	0.79	0.03	8.58	0.05	4.62	1.05	1.92	7.64	16.21	6%	
MW11A	0.15	0.12	5.13	0.04	5.43	0.00	4.69	0.33	1.29	6.31	11.74	7%	
MW13S	2.89	2.97	1.48	0.04	7.38	0.03	3.97	2.25	0.82	7.08	14.46	4%	
MW13A	3.35	3.32	1.23	0.08	7.98	0.05	5.15	1.91	0.96	8.07	16.05	6%	
MW14A	4.68	5.17	4.55	0.05	14.45	0.08	8.64	4.88	0.48	14.08	28.53	3%	
MW15A	5.89	5.34	3.56	0.12	14.91	0.00	10.06	4.23	1.12	15.41	30.32	2%	
MW17	0.43	0.30	3.35	0.05	4.12	0.02	1.79	0.28	1.74	3.83	7.95	5%	
MW17A	5.01	5.06	2.13	0.07	12.27	0.06	6.00	4.41	0.97	11.44	23.70	4%	
SW-1	2.13	2.71	1.65	0.06	6.55	0.06	3.08	2.39	1.03	6.56	13.11	0%	
E141A	8.16	4.17	1.93	0.00	14.26	0.07	8.27	2.72	3.10	14.17	28.43	1%	
P64C	4.88	4.28	2.96	0.07	12.18	0.04	8.04	1.97	1.18	11.23	23.41	7%	
MW_Dyer	2.39	3.80	2.42	0.00	8.61	0.00	6.70	0.06	1.88	8.64	17.25	3%	
PZ_Dyer	3.16	3.90	0.91	0.00	7.98	0.00	5.47	1.23	0.98	7.69	15.68	4%	
PZ_Moose	4.37	2.65	1.07	0.00	8.08	0.00	5.80	1.73	0.81	8.35	16.43	2%	
PZ_Stagecoach	1.48	4.71	4.07	0.00	10.26	0.00	7.33	2.85	0.56	10.75	21.01	2%	
PW_M	3.87	5.16	3.51	0.00	12.54	0.00	5.68	7.18	0.74	13.60	26.14	5%	
PW_22	5.59	5.26	4.72	0.00	15.57	0.00	7.65	8.08	1.03	16.77	32.34	4%	
PW_AVitrano	3.18	4.67	3.65	0.00	11.50	0.00	5.99	4.98	0.21	11.18	22.68	4%	

Table L-4
Groundwater VOC Analyses

PARAMETER	UNITS	PAL	ES	CW07[1]	E093		E135A		E135B		E137A		E137B		MW-01		MW-01A		MW-01B		MW-02	
				June 1, 2006	June 2, 2006	June 29, 2006	May 31, 2006	June 28, 2006	May 31, 2006	June 28, 2006	May 31, 2006	June 29, 2006	May 31, 2006	June 29, 2006	June 2, 2006	June 30, 2006	June 2, 2006	June 30, 2006	May 30, 2006	June 27, 2006	May 31, 2006	June 27, 2006
1,1,1,2-Tetrachloroethane	µg/L	7	70	< 0.12	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
1,1,1-Trichloroethane	µg/L	40	200	< 0.14	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
1,1,2,2-Tetrachloroethane	µg/L	0.02	0.2	< 0.17	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
1,1,2-Trichloroethane	µg/L	0.5	5	< 0.13	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
1,1-Dichloroethane	µg/L	85	850	< 0.16	< 0.031	< 0.031	0.62	0.85	0.5	0.51	1.3	1.3	0.8	0.95	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.034 J	0.035 J
1,1-Dichloroethene	µg/L	0.7	7	< 0.21	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,1-Dichloropropene	µg/L			< 0.14	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,2,3-Trichlorobenzene	µg/L			< 0.13	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
1,2,3-Trichloropropane	µg/L	12	60	< 0.1	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
1,2,4-Trichlorobenzene	µg/L	14	70	< 0.15	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,2,4-Trimethylbenzene	µg/L	96	480	< 0.12	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
1,2-Dibromo-3-chloropropane	µg/L	0.02	0.2		< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026
1,2-Dibromoethane	µg/L	0.005	0.05		< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023
1,2-Dichlorobenzene	µg/L	60	600	< 0.23	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,2-Dichloroethane	µg/L	0.5	5	< 0.12	< 0.04	< 0.04	0.22	0.32	0.082 J	0.071 J	0.96	1	0.15	0.15	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,2-Dichloropropane	µg/L	0.5	5	< 0.14	< 0.06	< 0.06	0.22	0.27	0.37	0.35	0.3	0.3	0.12 J	0.13 J	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,3,5-Trimethylbenzene	µg/L	96	480	< 0.11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1,3-Dichlorobenzene	µg/L	125	1,250	< 0.21	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1,3-Dichloropropane	µg/L			< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/L	15	75	< 0.23	< 0.05	< 0.05	0.19	0.21	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	µg/L			< 0.19	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
2-Butanone	µg/L	90	460		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
2-Chlorotoluene	µg/L			< 0.14	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
2-Hexanone	µg/L				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.72 J	< 0.5
4-Chlorotoluene	µg/L			< 0.23	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone	µg/L	50	500		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	1.2 J	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Acetone	µg/L	200	1,000		4 Ju	< 1.5	4.6 Ju	< 1.5	2.4 Ju	< 1.5	< 1.5	< 1.5	6.3	2.7 Ju	2.9 J	< 1.5	1.6 Ju	< 1.5	4.2 Ju	< 1.5	2.2 Ju	< 1.5
Benzene	µg/L	0.5	5	< 0.21	< 0.05	< 0.05	0.18	0.24	0.1 J	0.12 J	0.17	0.19	0.73	0.74	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromobenzene	µg/L			< 0.11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Bromochloromethane	µg/L			< 0.18	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	µg/L	0.06	0.6	< 0.12	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Bromoform	µg/L	0.44	4.4	< 0.14	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Bromomethane	µg/L	1	10	< 0.4	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Carbon disulfide	µg/L	200	1,000		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbon tetrachloride	µg/L	0.5	5	< 0.11	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	µg/L	20	100	< 0.22	< 0.05	< 0.05	0.33	0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorodibromomethane	µg/L	6	60	< 0.13	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Chloroethane	µg/L	80	400	< 0.25	0.24	0.23	0.38	0.59	0.078 J	< 0.06	0.98	1.1	0.61	0.67	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.097 J	< 0.06
Chloroform	µg/L	0.6	6	< 0.17	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Chloromethane	µg/L	0.3	3	< 0.14	0.16 J	0.071 J	0.16 J	0.15 J	0.16 J	0.19	0.14 J	0.11 J	0.12 J	0.12 J	0.18	0.067 J	0.1 J	0.14 J	0.13 J	0.13 J	0.2	0.23
cis-1,2-Dichloroethene	µg/L	7	70	< 0.17	< 0.06	< 0.06	0.87	1.1	2	2.1	5	5.4	0.63	0.77	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
cis-1,3-Dichloropropene	µg/L			< 0.14	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Dibromomethane	µg/L			< 0.11	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Dichlorodifluoromethane	µg/L	200	1,000	< 0.16	0.31	0.41 A	0.15 J	0.27	< 0.06	0.064 J	0.38	0.56	0.1 J	0.15 J	0.14 J	0.2 A	0.21	0.28 A	< 0.06	< 0.06	0.12 J	0.2
Di-isopropyl ether	µg/L				< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.091 J	0.089 J	0.12 J	0.093 J	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07
Ethylbenzene	µg/L	140	700	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorotrichloromethane	µg/L	698	3,490	< 0.18	0.058 J	0.067 JA	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/L			< 0.21	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Isopropylbenzene	µg/L			< 0.24	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Methylene chloride	µg/L	0.5	5	< 0.2	0.31 JB	< 0.11	0.43 ABu	< 0.11	< 0.11	< 0.11	0.36 ABu	< 0.11	0.3 JABu	< 0.11	0.15 JBu	< 0.11	0.2 JBu	< 0.11	< 0.11	< 0.11	0.12 JBu	< 0.11
Methyl-tert-butyl-ether	µg/L	12	60	< 0.12	0.07 J	0.06 J	< 0.05	0.056 J	< 0.05	< 0.05	0.066 J	0.055 J	0.077 J	0.064 J	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/L	8	40	< 0.15	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
N-butylbenzene	µg/L			< 0.26	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
N-propylbenzene	µg/L			< 0.21	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
P-isopropyltoluene	µg/L			< 0.1	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Sec-butylbenzene	µg/L			< 0.23	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Styrene	µg/L			< 0.25	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Tert-butylbenzene	µg/L			< 0.24	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethene	µg/L	0.5	5	< 0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran	µg/L	10	50		1.5 J	< 0.7	0.81 J	< 0.7	< 0.7	< 0.7	1.1 J	< 0.7	1.8 J	1.8 J	< 0.7	< 0.7	1 J	1.3 J	< 0.7	< 0.7	< 0.7	< 0.7
Toluene	µg/L	200	1,000	< 0.23	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	0.11 J	< 0.08	< 0.08	< 0.08
trans-1,2-Dichloroethene	µg/L	20	100	< 0.13	< 0.04	< 0.04	0.12 J	0.13 J	0.14	0.15	0.34	0.34	0.086 J	0.09 J	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
trans-1,3-Dichloropropene	µg/L			< 0.16	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Trichloroethene	µg/L	0.5	5	< 0.17	< 0.03	< 0.03	0.044 J	< 0.03	0.33	0.31	0.29	0.27	0.13	0.1 J	< 0.03	< 0.03	< 0.03	< 0.03	0.037 J	< 0.03	< 0.03	< 0.03
Vinyl acetate	µg/L				< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Vinyl chloride	µg/L	0.02	0.2	< 0.14	3.1	3.1	0.2	0.32	0.091	0.11	0.43	0.53	0.36	0.46	0.86	1	6.1	6.6	< 0.018	< 0.018	< 0.018	< 0.018
Xylene, m + p	µg/L				< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Xylene, o	µg/L				< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Xylene, total	µg/L			< 0.22																		

Notes:

[1] CW07 was analyzed during the first round only due to a missed hold time in the second round

CW07 was analyzed using USEPA Method 524.2 all other samples were analyzed using USEPA Method 8260

A = analyte averaged calibration criteria within acceptable limits.

B = analyte detected in associated method blank.

J = result is between the Limit of Detection and Limit of Quantitation; value is estimated value.

u = not detected based on data verification.

Blank= No analysis or standard for this compound

Italicized text = result exceeded the NR 141 Preventative Action Limit.

Bold text = result exceeded the NR141 Enforcement Standard.

Table L-4(continued)
Groundwater VOC Analyses

PARAMETER	UNITS	PAL	ES	MW-03		MW-03A		MW-04		MW-04A		MW-05		MW-06		MW-07		P064C		PW SEYBOLD		PW THEILE		COUNTY PARK 2
				May 31, 2006	June 28, 2006	May 30, 2006	June 29, 2006	June 1, 2006	June 28, 2006	May 30, 2006	June 27, 2006	June 1, 2006	June 30, 2006	May 30, 2006	June 27, 2006	June 2, 2006	June 28, 2006	May 31, 2006	June 29, 2006	June 1, 2006	June 30, 2006	May 30, 2006	June 28, 2006	June 28,2006
1,1,1,2-Tetrachloroethane	µg/L	7	70	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
1,1,1-Trichloroethane	µg/L	40	200	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07
1,1,2,2-Tetrachloroethane	µg/L	0.02	0.2	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	<0.018
1,1,2-Trichloroethane	µg/L	0.5	5	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	<0.09
1,1-Dichloroethane	µg/L	85	850	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.13	0.13	< 0.031	< 0.031	< 0.031	< 0.031	<0.031
1,1-Dichloroethene	µg/L	0.7	7	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
1,1-Dichloropropene	µg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
1,2,3-Trichlorobenzene	µg/L			< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
1,2,3-Trichloropropane	µg/L	12	60	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	<0.09
1,2,4-Trichlorobenzene	µg/L	14	70	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
1,2,4-Trimethylbenzene	µg/L	96	480	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
1,2-Dibromo-3-chloropropane	µg/L	0.02	0.2	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	<0.026
1,2-Dibromoethane	µg/L	0.005	0.05	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	<0.023
1,2-Dichlorobenzene	µg/L	60	600	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
1,2-Dichloroethane	µg/L	0.5	5	0.06 J	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
1,2-Dichloropropane	µg/L	0.5	5	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
1,3,5-Trimethylbenzene	µg/L	96	480	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
1,3-Dichlorobenzene	µg/L	125	1,250	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
1,3-Dichloropropane	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
1,4-Dichlorobenzene	µg/L	15	75	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
2,2-Dichloropropane	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
2-Butanone	µg/L	90	460	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.88 J	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	<0.4
2-Chlorotoluene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
2-Hexanone	µg/L			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
4-Chlorotoluene	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
4-Methyl-2-pentanone	µg/L	50	500	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	<0.6
Acetone	µg/L	200	1,000	4.8	< 1.5	1.9 Ju	< 1.5	3.1 Ju	< 1.5	4.6 Ju	2.6 J	< 1.5	< 1.5	< 1.5	< 1.5	2.5 J	< 1.5	2.1 J	< 1.5	< 1.5	< 1.5	5.8	< 1.5	<1.5
Benzene	µg/L	0.5	5	< 0.05	< 0.05	< 0.05	0.05 J	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Bromobenzene	µg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Bromochloromethane	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Bromodichloromethane	µg/L	0.06	0.6	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
Bromoform	µg/L	0.44	4.4	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07
Bromomethane	µg/L	1	10	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Carbon disulfide	µg/L	200	1,000	< 0.1	< 0.1	0.2 J	0.79	< 0.1	< 0.1	0.25 J	0.72 B	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
Carbon tetrachloride	µg/L	0.5	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Chlorobenzene	µg/L	20	100	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Chlorodibromomethane	µg/L	6	60	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	<0.09
Chloroethane	µg/L	80	400	0.3	0.32	< 0.06	< 0.06	< 0.06	0.11 J	0.14 J	< 0.06	0.066 J	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.19	0.2	< 0.06	< 0.06	0.12 J	0.19	<0.06
Chloroform	µg/L	0.6	6	< 0.07	< 0.07	0.16 J	0.11 J	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07
Chloromethane	µg/L	0.3	3	0.16 J	0.24	0.23	0.15 J	0.15 J	0.18	0.19	0.18	0.16 J	0.067 J	0.14 J	< 0.05	0.13 J	0.12 J	0.087 J	0.055 J	0.15 J	0.23	0.2	0.34	0.28
cis-1,2-Dichloroethene	µg/L	7	70	0.1 J	0.13 J	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.12 J	0.14 J	< 0.06	< 0.06	< 0.06	< 0.06	2.7	2.5	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
cis-1,3-Dichloropropene	µg/L			< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	<0.016
Dibromomethane	µg/L			< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	<0.06
Dichlorodifluoromethane	µg/L	200	1,000	0.45	0.7	< 0.06	< 0.06	0.2	0.32	< 0.06	< 0.06	0.17 J	0.26 A	< 0.06	< 0.06	0.076 J	0.11 J	0.23	0.28	0.19 J	0.19 JA	0.23	0.31	<0.06
Di-isopropyl ether	µg/L			< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	<0.07
Ethylbenzene	µg/L	140	700	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Fluorotrichloromethane	µg/L	698	3,490	0.22	0.28	< 0.05	< 0.05	0.065 J	0.1 J	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.081 J	0.094 J	< 0.05	< 0.05	0.12 J	0.13 J	<0.05
Hexachlorobutadiene	µg/L			< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
Isopropylbenzene	µg/L			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Methylene chloride	µg/L	0.5	5	0.39 Bu	< 0.11	*0.69 ABu*	< 0.11	*0.67 Bu*	< 0.11	*0.53 ABu*	< 0.11	0.26 JBu	< 0.11	0.35 JABu	< 0.11	< 0.11	< 0.11	0.46 ABu	< 0.11	0.12 JBu	< 0.11	< 0.11	< 0.11	<0.11
Methyl-tert-butyl-ether	µg/L	12	60	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Naphthalene	µg/L	8	40	< 0.08	< 0.08	0.19 J	0.39	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
N-butylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
N-propylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
P-isopropyltoluene	µg/L			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Sec-butylbenzene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
Styrene	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
Tert-butylbenzene	µg/L			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Tetrachloroethene	µg/L	0.5	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
Tetrahydrofuran	µg/L	10	50	0.79 J	< 0.7	< 0.7	< 0.7	1.2 J	< 0.7	< 0.7	< 0.7	1.1 J	1.3 J	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	<0.7
Toluene	µg/L	200	1,000	< 0.08	< 0.08	0.15 J	0.11 J	< 0.08	< 0.08	0.14 J	0.29	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	<0.08
trans-1,2-Dichloroethene	µg/L	20	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.19	0.17	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
trans-1,3-Dichloropropene	µg/L			< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	<0.015
Trichloroethene	µg/L	0.5	5	0.042 J	< 0.03	0.049 J	< 0.03	< 0.03	< 0.03	0.031 J	< 0.03	< 0.03	< 0.03	0.031 J	< 0.03	< 0.03	< 0.03	0.038 J	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Vinyl acetate	µg/L			< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	<0.4
Vinyl chloride	µg/L	0.02	0.2	0.6	0.81	*0.029 J*	< 0.018	0.6	0.94	*0.05 J*	< 0.018	1.8	2.1	< 0.018	< 0.018	0.83	0.94	2.4	2.5	< 0.018	< 0.018	0.42	0.49	<0.018
Xylene, m + p	µg/L			< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	<0.12
Xylene, o	µg/L			< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
Xylene, total	µg/L																							

Notes:

[1] CW07 was analyzed during the first round only due to a missed hold time in the second round

CW07 was analyzed using USEPA Method 524.2 all other samples were analyzed using USEPA Method 8260

A = analyte averaged calibration criteria within acceptable limits.

B = analyte detected in associated method blank.

J = result is between the Limit of Detection and Limit of Quantitation; value is estimated value.

u = not detected based on data verification.

Blank= No analysis or standard for this compound

Italicized text = result exceeded the NR 141 Preventative Action Limit.

Bold text = result exceeded the NR141 Enforcement Standard.

Table L-5
Tentatively Identified Compounds

WELL NUMBER	SAMPLE DATE	PARAMETER	CONCENTRATION	UNITS	QUALIFIER
MW-04A	5/30/2006	UNKNOWN, 4.09	0.4	µg/L	J
MW-04A	5/30/2006	HEXANAL	1.4	µg/L	J
MW-04A	5/30/2006	HEXANE, 1-CHLORO-	1.2	µg/L	J
MW-04A	5/30/2006	HEPTANAL	2.3	µg/L	J
MW-03A	5/30/2006	ETHER	26.2	µg/L	J
MW-03A	5/30/2006	UNKNOWN, 1.48	0.7	µg/L	J
MW-03A	5/30/2006	UNKNOWN, 26.28	0.7	µg/L	J
MW-03	5/31/2006	UNKNOWN, 1.47	0.8	µg/L	J
MW-03	5/31/2006	ETHER	31.5	µg/L	J
E135A	5/31/2006	ETHER	1.8	µg/L	J
P064C	5/31/2006	ETHER	6.3	µg/L	J
E137B	5/31/2006	UNKNOWN, 1.47	0.5	µg/L	J
E137B	5/31/2006	ETHER	2.5	µg/L	J
E137A	5/31/2006	UNKNOWN, 1.47	0.6	µg/L	J
E137A	5/31/2006	ETHER	7.3	µg/L	J
MW-05	6/1/2006	UNKNOWN, 1.47	0.5	µg/L	J
MW-05	6/1/2006	ETHER	0.9	µg/L	J
MW-04	6/1/2006	UNKNOWN, 12.18	0.5	µg/L	J
MW-04	6/1/2006	ETHER	2.9	µg/L	J
MW-04 DUP	6/1/2006	ETHER	3	µg/L	J
MW-01A	6/2/2006	ETHER	3	µg/L	J
MW-01	6/2/2006	ETHER	0.6	µg/L	J
E093D	6/2/2006	UNKNOWN, 1.48	0.8	µg/L	J
E093D	6/2/2006	ETHER	10.3	µg/L	J
MW-01 DUP	6/2/2006	ETHER	0.6	µg/L	J
MW-04	6/28/2006	ETHER	3.6	µg/L	J
MW-03	6/28/2006	ETHER	32.1	µg/L	J
PW_THEILE	6/28/2006	ETHER	26.2	µg/L	J
E135A	6/28/2006	ETHER	2.6	µg/L	J
E093D	6/29/2006	ETHER	9.8	µg/L	J
E137B	6/29/2006	ETHER	2.3	µg/L	J
E137A	6/29/2006	ETHER	7.6	µg/L	J
P064C	6/29/2006	ETHER	5.3	µg/L	J
MW-01A	6/30/2006	ETHER	2.4	µg/L	J

Table L-6
2006-2007
NR 140 Exceedences

MUSKEGO NR 140 EXCEEDENCES

2006 - 2007

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
1,1,2-TRICHLOROETHANE	E706003-04	6/26/2007	PW_09	0.5	5	PAL	1.8	UG/L	
1,2-DICHLOROETHANE	E607004-02	7/18/2006	PW_M DUP	0.5	5	PAL	1.2	UG/L	
	WMI_X410	4/6/2006	E137A	0.5	5	PAL	1.1	UG/L	J
	E607004-01	7/18/2006	PW_MAGESKE	0.5	5	PAL	1.1	UG/L	
	A6749603	6/29/2006	E137A	0.5	5	PAL	1	UG/L	
	A6615107	5/31/2006	E137A	0.5	5	PAL	0.96	UG/L	
	A7385406	4/16/2007	E137A	0.5	5	PAL	0.91	UG/L	J
	A7610305	6/4/2007	E137A	0.5	5	PAL	0.86	UG/L	
	A7767605	7/10/2007	E137A	0.5	5	PAL	0.83	UG/L	
	A6359503	4/5/2006	EW-03R	0.5	5	PAL	0.77	UG/L	J
	A7767612	7/10/2007	MW-15A	0.5	5	PAL	0.75	UG/L	
	477148	6/7/2007	MW-15A	0.5	5	PAL	0.71	UG/L	
1,2-DICHLOROETHENE, TOTAL	A6368807	4/6/2006	E141A	7	70	PAL	8.1	UG/L	
1,2-DICHLOROPROPANE	A6368807	4/6/2006	E141A	0.5	5	PAL	1.2	UG/L	
	477139	6/7/2007	E141A	0.5	5	PAL	1.1	UG/L	
	A7780606	7/12/2007	E141A	0.5	5	PAL	0.92	UG/L	
	A7385408	4/16/2007	E141A	0.5	5	PAL	0.85	UG/L	J
ANTIMONY	ME3K57	7/20/2006	MW_DYER	1.2	6	ES	6.4	UG/L	Jj
ANTIMONY, DISSOLVED	A6749605	6/29/2006	MW-03AF	1.2	6	PAL	1.7	UG/L	
ANTIMONY, TOTAL	A6609601	5/30/2006	MW-04A	1.2	6	PAL	1.2	UG/L	
ARSENIC	E707001-02	7/17/2007	PZ_DYER	1	10	PAL	9.1	UG/L	
	ME3K67	7/20/2006	PW_TVITRANO	1	10	PAL	8.9	UG/L	Jj
	ME3K59	7/19/2006	PZ_DYER	1	10	PAL	7.6	UG/L	Jj
	E707002-04	7/18/2007	STAGECOACH	1	10	PAL	7.2	UG/L	
	E707002-07	7/19/2007	PW_14	1	10	PAL	6.8	UG/L	
	ME3K70	7/20/2006	PW_14	1	10	PAL	6.5	UG/L	Jj

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
ARSENIC	E707002-09	7/19/2007	PW_AVITRANO	1	10	PAL	6.3	UG/L	
	E706003-05	6/26/2007	P064B	1	10	PAL	6.2	UG/L	
	E706003-10	6/26/2007	PW_MAGESKE	1	10	PAL	6	UG/L	
	E707002-03	7/18/2007	PW_29	1	10	PAL	5.8	UG/L	
	ME3K74	7/20/2006	PW_MITSCH	1	10	PAL	5.8	UG/L	Jj
	ME3K57	7/20/2006	MW_DYER	1	10	PAL	5.6	UG/L	Jj
	E706002-05	6/25/2007	PW_PRIES	1	10	PAL	5.4	UG/L	
	ME3K63	7/20/2006	PW_09	1	10	PAL	5	UG/L	Jj
	E707001-01	7/17/2007	MW_DYER	1	10	PAL	4.9	UG/L	
	ME3K61	7/20/2006	P064B	1	10	PAL	4.9	UG/L	Jj
	ME3K47	7/18/2006	PW_M DUP	1	10	PAL	4.9	UG/L	Jj
	E707002-01	7/18/2007	PW_41	1	10	PAL	4.8	UG/L	
	ME3K48	7/19/2006	PW_GUMIENY	1	10	PAL	4.7	UG/L	Jj
	E706004-03	6/27/2007	PW_TVITRANO	1	10	PAL	4.7	UG/L	
	E706003-04	6/26/2007	PW_09	1	10	PAL	3.8	UG/L	
	E707001-05	7/17/2007	PW_22 DUP	1	10	PAL	3.4	UG/L	
	E706004-02	6/27/2007	PW_AVITRANO	1	10	PAL	3.2	UG/L	
	E706004-07	6/27/2007	PW_AVITRANO D	1	10	PAL	3	UG/L	
	E706004-01	6/27/2007	PW_22	1	10	PAL	2.7	UG/L	
	E707002-02	7/18/2007	PW_MITSCH	1	10	PAL	2.5	UG/L	
	E706003-01	6/26/2007	PW_D HENNEBER D	1	10	PAL	2.4	UG/L	
	E707001-04	7/17/2007	PW_J HENNEBER D	1	10	PAL	2.3	UG/L	
	E707001-03	7/17/2007	PW_J HENNEBERRY	1	10	PAL	2.1	UG/L	
	E707001-06	7/17/2007	PW_AVITRANO	1	10	PAL	1.9	UG/L	J
	E706002-01	6/25/2007	PW_PETERSON	1	10	PAL	1.9	UG/L	J
	E706003-08	6/26/2007	PW_B HENNEBERRY	1	10	PAL	1.5	UG/L	J
	E706004-04	6/27/2007	PW_LEONARD	1	10	PAL	1.4	UG/L	J
	E706003-02	6/26/2007	CO.PARK 2	1	10	PAL	1.3	UG/L	J
	E707002-08	7/19/2007	PW_52	1	10	PAL	1.1	UG/L	J

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
ARSENIC, DISSOLVED	A6359503	4/5/2006	EW-03R	1	10	ES	23.6	UG/L	
	A7385702	4/16/2007	EW-03R	1	10	ES	22.1	UG/L	
	A6359502	4/5/2006	EW-02	1	10	ES	19.2	UG/L	
	A7626707	6/6/2007	E135A	1	10	ES	14.2	UG/L	
	A7385420	4/16/2007	EW-02	1	10	ES	13.9	UG/L	
	A6359501	4/5/2006	EW-01	1	10	PAL	9.6	UG/L	
	A7385404	4/16/2007	E135A	1	10	PAL	8.4	UG/L	
	WMI_X408	4/6/2006	E135A	1	10	PAL	8	UG/L	
	A7642804	6/8/2007	PZ_DYER	1	10	PAL	7.61	UG/L	
	A7385419	4/16/2007	EW-01	1	10	PAL	7	UG/L	
	A7610305	6/4/2007	E137A	1	10	PAL	6.8	UG/L	
	A7610304	6/4/2007	E137B	1	10	PAL	6.3	UG/L	
	A7385406	4/16/2007	E137A	1	10	PAL	4.9	UG/L	
	A6368806	4/6/2006	E140	1	10	PAL	4.8	UG/L	
	A7619307	6/5/2007	CW07	1	10	PAL	4.4	UG/L	
	A7385407	4/16/2007	E140	1	10	PAL	4.4	UG/L	
	A7626703	6/6/2007	MW-06	1	10	PAL	4.2	UG/L	
	A7610301	6/4/2007	MW-03	1	10	PAL	4.1	UG/L	
	A7626704	6/6/2007	MW-17A	1	10	PAL	4.1	UG/L	
	A7619303	6/5/2007	MW-07	1	10	PAL	3.9	UG/L	
	A6359505	4/5/2006	TW_74R	1	10	PAL	3.7	UG/L	
	A7626713	6/6/2007	MW-06 DUP	1	10	PAL	3.6	UG/L	
	WMI_X410	4/6/2006	E137A	1	10	PAL	3.5	UG/L	
	A7626710	6/6/2007	MW-01B	1	10	PAL	3.3	UG/L	
	A6749605	6/29/2006	MW-03AF	1	10	PAL	3.3	UG/L	
	A7626708	6/6/2007	E135B	1	10	PAL	3	UG/L	
	A7385701	4/16/2007	E102A	1	10	PAL	2.8	UG/L	
	A7619301	6/5/2007	MW-10A	1	10	PAL	2.8	UG/L	
	A6368811	4/6/2006	E092P	1	10	PAL	2.7	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
ARSENIC, DISSOLVED	A7626706	6/6/2007	MW-02	1	10	PAL	2.4	UG/L	
	A7385410	4/16/2007	E017R	1	10	PAL	2.3	UG/L	
	A7385412	4/16/2007	E092P	1	10	PAL	2.2	UG/L	
	A6368809	4/6/2006	E017R	1	10	PAL	2	UG/L	
	A7626711	6/6/2007	MW-01	1	10	PAL	2	UG/L	
	A7626709	6/6/2007	MW-17	1	10	PAL	1.9	UG/L	
	A7385708	4/16/2007	TW_74R	1	10	PAL	1.9	UG/L	
	WMI_X409	4/6/2006	E135B	1	10	PAL	1.8	UG/L	
	A7385405	4/16/2007	E135B	1	10	PAL	1.8	UG/L	
	A7619302	6/5/2007	MW-09A	1	10	PAL	1.8	UG/L	
	A7626701	6/6/2007	MW-13A	1	10	PAL	1.8	UG/L	
	A6756905	6/30/2006	MW-01F	1	10	PAL	1.6	UG/L	
	A7619308	6/5/2007	MW-11A	1	10	PAL	1.5	UG/L	
	A6368807	4/6/2006	E141A	1	10	PAL	1.4	UG/L	
	A7619304	6/5/2007	E093D	1	10	PAL	1.3	UG/L	
	A7610303	6/4/2007	MW-03A	1	10	PAL	1.3	UG/L	
	A6368815	4/6/2006	E094P	1	10	PAL	1.2	UG/L	
	A7385408	4/16/2007	E141A	1	10	PAL	1.2	UG/L	
	A7619310	6/5/2007	MW-07S DUP	1	10	PAL	1.2	UG/L	
	A6368821	4/6/2006	TW_62	1	10	PAL	1.2	UG/L	
	A7385401	4/16/2007	DUP-01	1	10	PAL	1.1	UG/L	
	A6368812	4/6/2006	E093D	1	10	PAL	1.1	UG/L	
	A7619306	6/5/2007	MW-07S	1	10	PAL	1.1	UG/L	
	A7626712	6/6/2007	MW-15A	1	10	PAL	1.1	UG/L	
ARSENIC, TOTAL	A6778601	7/10/2006	EW COMP	1	10	ES	36.8	UG/L	
	A7765401	7/10/2007	EW COMP	1	10	ES	24.1	UG/L	
	A6B48401	10/3/2006	LF01	1	10	ES	21.6	UG/L	
	A6615104	5/31/2006	E135A	1	10	ES	16.1	UG/L	
	A6743206	6/28/2006	E135A	1	10	ES	14.6	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
ARSENIC, TOTAL	A6B89702	10/11/2006	PW_THIELE	1	10	ES	12.4	UG/L	
	A6353702	4/4/2006	PW_THIELE	1	10	ES	10.7	UG/L	
	A6738306	6/27/2006	MW-04A	1	10	PAL	8.6	UG/L	
	A6749603	6/29/2006	E137A	1	10	PAL	8.4	UG/L	
	A6615107	5/31/2006	E137A	1	10	PAL	7.7	UG/L	
	A6609601	5/30/2006	MW-04A	1	10	PAL	7.6	UG/L	
	A7334202	4/4/2007	PW_THIELE	1	10	PAL	7.1	UG/L	
	A6743204	6/28/2006	PW_THIELE	1	10	PAL	6.9	UG/L	
	A6778502	7/10/2006	PW_THIELE	1	10	PAL	6.8	UG/L	
	A7803602	7/17/2007	PW_THIELE	1	10	PAL	6.8	UG/L	
	A6615106	5/31/2006	E137B	1	10	PAL	6.7	UG/L	
	A6609604	5/30/2006	PW_THIELE	1	10	PAL	6.5	UG/L	
	A7032402	1/10/2007	PW_THIELE	1	10	PAL	6.3	UG/L	
	A6609602	5/30/2006	MW-03A	1	10	PAL	5.7	UG/L	
	A6749602	6/29/2006	E137B	1	10	PAL	5.5	UG/L	
	A6629202	6/2/2006	MW-07	1	10	PAL	4.4	UG/L	
	A6615102	5/31/2006	MW-03	1	10	PAL	4.3	UG/L	
	A6749606	6/29/2006	CW07	1	10	PAL	3.9	UG/L	
	A6743201	6/28/2006	MW-04	1	10	PAL	3.9	UG/L	
	A6743207	6/28/2006	MW-07	1	10	PAL	3.9	UG/L	
	A6743209	6/28/2006	MW-07 DUP	1	10	PAL	3.9	UG/L	
	A6622503	6/1/2006	MW-04	1	10	PAL	3.8	UG/L	
	A6743203	6/28/2006	MW-03	1	10	PAL	3.7	UG/L	
	A6622505	6/1/2006	MW-04 DUP	1	10	PAL	3.7	UG/L	
	A6756901	6/30/2006	PW_SEYBOLD	1	10	PAL	3.4	UG/L	
	A6609605	5/30/2006	MW-01B	1	10	PAL	3.1	UG/L	
	A6738302	6/27/2006	MW-01B	1	10	PAL	3	UG/L	
	A6738301	6/27/2006	MW-06	1	10	PAL	2.9	UG/L	
	A6615103	5/31/2006	E135B	1	10	PAL	2.8	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
ARSENIC, TOTAL	A6609603	5/30/2006	MW-06	1	10	PAL	2.7	UG/L	
	A6743205	6/28/2006	E135B	1	10	PAL	2.6	UG/L	
	A6629206	6/2/2006	MW-01 DUP	1	10	PAL	2.5	UG/L	
	A6629204	6/2/2006	MW-01	1	10	PAL	2.4	UG/L	
	A6067202	1/18/2006	PW_THIELE	1	10	PAL	2.4	UG/L	
	A6622502	6/1/2006	MW-05	1	10	PAL	2	UG/L	
	A6629203	6/2/2006	MW-01A	1	10	PAL	1.8	UG/L	
	A6756903	6/30/2006	MW-01A	1	10	PAL	1.8	UG/L	
	A6629205	6/2/2006	E093D	1	10	PAL	1.7	UG/L	
	A6756902	6/30/2006	MW-05	1	10	PAL	1.7	UG/L	
	A6756904	6/30/2006	MW-01	1	10	PAL	1.4	UG/L	
	A6738303	6/27/2006	MW-02 DUP	1	10	PAL	1.1	UG/L	
	A6743202	6/28/2006	CO.PARK 2	1	10	PAL	1	UG/L	
	A6749601	6/29/2006	E093D	1	10	PAL	1	UG/L	
	A6738304	6/27/2006	MW-02	1	10	PAL	1	UG/L	
	A6615105	5/31/2006	P064C	1	10	PAL	1	UG/L	
BARIUM, TOTAL	A6609602	5/30/2006	MW-03A	400	2000	PAL	773	UG/L	
	A6749604	6/29/2006	MW-03A	400	2000	PAL	463	UG/L	
BENZENE	A7385407	4/16/2007	E140	0.5	5	PAL	4.4	UG/L	
	A6368806	4/6/2006	E140	0.5	5	PAL	2.6	UG/L	
	A7385420	4/16/2007	EW-02	0.5	5	PAL	2	UG/L	
	A6B68502	10/6/2006	EW-02	0.5	5	PAL	1.7	UG/L	
	A6359501	4/5/2006	EW-01	0.5	5	PAL	1.6	UG/L	
	A6359502	4/5/2006	EW-02	0.5	5	PAL	1.5	UG/L	
	A6B68501	10/6/2006	EW-01	0.5	5	PAL	1.1	UG/L	J
	A6778601	7/10/2006	EW COMP	0.5	5	PAL	1	UG/L	J
	A7765401	7/10/2007	EW COMP	0.5	5	PAL	1	UG/L	
	A6359503	4/5/2006	EW-03R	0.5	5	PAL	0.86	UG/L	J
	A6749602	6/29/2006	E137B	0.5	5	PAL	0.74	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
BENZENE	A6615106	5/31/2006	E137B	0.5	5	PAL	0.73	UG/L	
	A7385419	4/16/2007	EW-01	0.5	5	PAL	0.73	UG/L	J
	A6B68503	10/6/2006	EW-03R	0.5	5	PAL	0.73	UG/L	J
	A7385702	4/16/2007	EW-03R	0.5	5	PAL	0.72	UG/L	J
	A7010901	1/4/2007	E102A	0.5	5	PAL	0.64	UG/L	J
	364527	1/11/2006	FIELD BLANK	0.5	5	PAL	0.61	UG/L	
	367215	1/26/2006	FIELD BLANK	0.5	5	PAL	0.57	UG/L	
	A7767606	7/10/2007	E137B	0.5	5	PAL	0.56	UG/L	
	E607005-05	7/20/2006	PW_TVITRANO	0.5	5	PAL	0.5	UG/L	
BERYLLIUM	E707001-01	7/17/2007	MW_DYER	0.4	4	PAL	0.4	UG/L	J
BERYLLIUM, DISSOLVED	A6609602	5/30/2006	MW-03A	0.4	4	PAL	2.7	UG/L	
	A6749605	6/29/2006	MW-03AF	0.4	4	PAL	0.79	UG/L	
BIS(2-ETHYLHEXYL)PHTHALATE	E706003-07	6/26/2007	P064A	0.6	6	ES	92	UG/L	
	E607005-19	7/20/2006	P064A	0.6	6	ES	55	UG/L	
	E607005-14	7/20/2006	PW_D HENNEBERRY	0.6	6	ES	55	UG/L	
	E607005-16	7/20/2006	P064C	0.6	6	ES	54	UG/L	
	E607005-13	7/20/2006	PW_22	0.6	6	ES	52	UG/L	
	E607005-12	7/20/2006	PW_29	0.6	6	ES	43	UG/L	
	E607005-24	7/20/2006	P064B	0.6	6	ES	15	UG/L	
	E706004-04	6/27/2007	PW_LEONARD	0.6	6	ES	15	UG/L	
	E607005-20	7/20/2006	CO.PARK 2	0.6	6	ES	8.8	UG/L	
	E607005-23	7/20/2006	PW_M HENNEBERRY	0.6	6	ES	6.7	UG/L	
	E706003-11	6/26/2007	FIELD BLANK	0.6	6	PAL	5.7	UG/L	
	E607005-02	7/20/2006	RBLK2	0.6	6	PAL	5.5	UG/L	
	E607005-25	7/20/2006	RBLK	0.6	6	PAL	4.9	UG/L	
	E706003-05	6/26/2007	P064B	0.6	6	PAL	4.8	UG/L	J
	E706003-08	6/26/2007	PW_B HENNEBERRY	0.6	6	PAL	4.6	UG/L	J
	E707002-04	7/18/2007	STAGECOACH	0.6	6	PAL	4.5	UG/L	J
	E706004-03	6/27/2007	PW_TVITRANO	0.6	6	PAL	4.4	UG/L	J

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
BIS(2-ETHYLHEXYL)PHTHALATE	E706004-07	6/27/2007	PW_AVITRANO D	0.6	6	PAL	4.1	UG/L	J
	E706003-10	6/26/2007	PW_MAGESKE	0.6	6	PAL	3.6	UG/L	J
	E707001-01	7/17/2007	MW_DYER	0.6	6	PAL	3.4	UG/L	J
	E607005-17	7/20/2006	PW_J HENNEBERRY	0.6	6	PAL	3.4	UG/L	
	E707001-06	7/17/2007	PW_AVITRANO	0.6	6	PAL	3.3	UG/L	J
	E706003-03	6/26/2007	CO.PARK 1	0.6	6	PAL	3.1	UG/L	J
	E707002-09	7/19/2007	PW_AVITRANO	0.6	6	PAL	3.1	UG/L	J
	E607005-01	7/20/2006	MW_DYER	0.6	6	PAL	3	UG/L	
	E607005-22	7/20/2006	PW_09	0.6	6	PAL	3	UG/L	
	E607005-21	7/20/2006	CO.PARK 1	0.6	6	PAL	2.9	UG/L	
	E707002-01	7/18/2007	PW_41	0.6	6	PAL	2.9	UG/L	J
	E607003-03	7/19/2006	PW_LEONARD	0.6	6	PAL	2.9	UG/L	
	E707002-02	7/18/2007	PW_MITSCH	0.6	6	PAL	2.5	UG/L	J
BROMODICHLOROMETHANE	491496	7/30/2007	TRUCK T30	0.06	0.6	ES	2.4	UG/L	AQ
	367498	1/27/2006	DR-2	0.06	0.6	ES	2.2	UG/L	
	491497	7/30/2007	TRUCK T63	0.06	0.6	ES	1.7	UG/L	AQ
	367215	1/26/2006	FIELD BLANK	0.06	0.6	ES	1.4	UG/L	
	364527	1/11/2006	FIELD BLANK	0.06	0.6	ES	1.3	UG/L	
	491498	7/30/2007	PUMP 1	0.06	0.6	ES	1.2	UG/L	AQ
	373115	3/3/2006	FIELD BLANK	0.06	0.6	PAL	0.43	UG/L	
	A7771902	7/11/2007	MW-05	0.06	0.6	PAL	0.11	UG/L	J
	A7771911	7/11/2007	MW-05 DUP	0.06	0.6	PAL	0.1	UG/L	J
	477134	6/7/2007	MW-05	0.06	0.6	PAL	0.063	UG/L	J
BROMOFORM	491496	7/30/2007	TRUCK T30	0.44	4.4	PAL	0.62	UG/L	A
	491497	7/30/2007	TRUCK T63	0.44	4.4	PAL	0.53	UG/L	A
CADMIUM, TOTAL	A6609602	5/30/2006	MW-03A	0.5	5	PAL	1.5	UG/L	
	A6738306	6/27/2006	MW-04A	0.5	5	PAL	0.8	UG/L	
CHLORIDE	A6615102	5/31/2006	MW-03	125	250	ES	649	MG/L	
	A7011305	1/4/2007	MW-03	125	250	ES	627	MG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHLORIDE	A6743203	6/28/2006	MW-03	125	250	ES	584	MG/L	
	A7011307	1/4/2007	MW-03 DUP	125	250	ES	577	MG/L	
	A7354201	4/10/2007	MW-03	125	250	ES	561	MG/L	
	A7610301	6/4/2007	MW-03	125	250	ES	485	MG/L	
	A7349804	4/9/2007	MW-01 DUP	125	250	ES	420	MG/L	
	A7626711	6/6/2007	MW-01	125	250	ES	411	MG/L	
	A6629206	6/2/2006	MW-01 DUP	125	250	ES	402	MG/L	
	A6756904	6/30/2006	MW-01	125	250	ES	380	MG/L	
	A6629204	6/2/2006	MW-01	125	250	ES	376	MG/L	
	A6743204	6/28/2006	PW_THIELE	125	250	ES	373	MG/L	
	A7771909	7/11/2007	MW-03	125	250	ES	371	MG/L	
	A6609604	5/30/2006	PW_THIELE	125	250	ES	362	MG/L	
	A7349801	4/9/2007	MW-01	125	250	ES	354	MG/L	
	A7767603	7/10/2007	MW-01	125	250	ES	348	MG/L	
	A7011301	1/4/2007	MW-01	125	250	ES	334	MG/L	
	A7642802	6/8/2007	PW_22	125	250	ES	318	MG/L	
	A7619302	6/5/2007	MW-09A	125	250	ES	291	MG/L	
	A7642803	6/8/2007	PW_MAGESKE	125	250	ES	280	MG/L	
	A7780607	7/12/2007	MW-09	125	250	ES	277	MG/L	
	A7363603	4/11/2007	MW-07 DUP	125	250	ES	262	MG/L	
	A7676802	6/15/2007	PW_22	125	250	ES	255	MG/L	
	A6743209	6/28/2006	MW-07 DUP	125	250	ES	250	MG/L	
	A7006701	1/3/2007	MW-07	125	250	PAL	248	MG/L	
	A6629202	6/2/2006	MW-07	125	250	PAL	245	MG/L	
	A7619303	6/5/2007	MW-07	125	250	PAL	241	MG/L	
	A6743207	6/28/2006	MW-07	125	250	PAL	234	MG/L	
	A7676801	6/15/2007	PW_MAGESKE	125	250	PAL	229	MG/L	
	A7363601	4/11/2007	MW-07	125	250	PAL	224	MG/L	
	A7011302	1/4/2007	MW-01A	125	250	PAL	220	MG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHLORIDE	A6749601	6/29/2006	E093D	125	250	PAL	218	MG/L	
	A6756903	6/30/2006	MW-01A	125	250	PAL	215	MG/L	
	A7619309	6/5/2007	MW-10	125	250	PAL	215	MG/L	
	A6629203	6/2/2006	MW-01A	125	250	PAL	214	MG/L	
	A7354205	4/10/2007	MW-01A	125	250	PAL	214	MG/L	
	A6629205	6/2/2006	E093D	125	250	PAL	211	MG/L	
	A7626705	6/6/2007	MW-01A	125	250	PAL	210	MG/L	
	A7619304	6/5/2007	E093D	125	250	PAL	204	MG/L	
	A7767609	7/10/2007	DUP-04	125	250	PAL	200	MG/L	
	A7767604	7/10/2007	MW-01A	125	250	PAL	199	MG/L	
	A6743201	6/28/2006	MW-04	125	250	PAL	199	MG/L	
	A7006703	1/3/2007	MW-05	125	250	PAL	197	MG/L	
	A7771903	7/11/2007	MW-07	125	250	PAL	195	MG/L	
	A7354203	4/10/2007	MW-05	125	250	PAL	192	MG/L	
	A7637101	6/7/2007	E093D	125	250	PAL	188	MG/L	
	A7637106	6/7/2007	MW-04	125	250	PAL	187	MG/L	
	A6756902	6/30/2006	MW-05	125	250	PAL	187	MG/L	
	A7363602	4/11/2007	MW-04	125	250	PAL	185	MG/L	
	A6622503	6/1/2006	MW-04	125	250	PAL	181	MG/L	
	A6622505	6/1/2006	MW-04 DUP	125	250	PAL	181	MG/L	
	A7676804	6/15/2007	PW_AVITRANO	125	250	PAL	180	MG/L	
	A7637103	6/7/2007	MW-14A	125	250	PAL	178	MG/L	
	A6622502	6/1/2006	MW-05	125	250	PAL	177	MG/L	
	A7006704	1/3/2007	MW-05 DUP	125	250	PAL	174	MG/L	
	A7642801	6/8/2007	PW_AVITRANO	125	250	PAL	173	MG/L	
	A7016201	1/5/2007	MW-04	125	250	PAL	172	MG/L	
	A7637105	6/7/2007	MW-05	125	250	PAL	171	MG/L	
	A7626704	6/6/2007	MW-17A	125	250	PAL	169	MG/L	
	A7758901	7/9/2007	MW-14A	125	250	PAL	168	MG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHLORIDE	A7780602	7/12/2007	MW-10	125	250	PAL	167	MG/L	
	A6615106	5/31/2006	E137B	125	250	PAL	163	MG/L	
	A7610304	6/4/2007	E137B	125	250	PAL	162	MG/L	
	A7758903	7/9/2007	MW-04	125	250	PAL	159	MG/L	
	A7771901	7/11/2007	E093D	125	250	PAL	154	MG/L	
	A7626712	6/6/2007	MW-15A	125	250	PAL	150	MG/L	
	A6749602	6/29/2006	E137B	125	250	PAL	148	MG/L	
	A7771907	7/11/2007	MW-17A	125	250	PAL	144	MG/L	
	A6749603	6/29/2006	E137A	125	250	PAL	140	MG/L	
	A7771911	7/11/2007	MW-05 DUP	125	250	PAL	140	MG/L	
	A7767606	7/10/2007	E137B	125	250	PAL	136	MG/L	
	A7626707	6/6/2007	E135A	125	250	PAL	135	MG/L	
	A6615107	5/31/2006	E137A	125	250	PAL	135	MG/L	
	A7771902	7/11/2007	MW-05	125	250	PAL	135	MG/L	
	A7610305	6/4/2007	E137A	125	250	PAL	132	MG/L	
	A7767605	7/10/2007	E137A	125	250	PAL	125	MG/L	
CHLORIDE, TOTAL	A7334301	4/4/2007	TANKM3	125	250	ES	550	MG/L	
	A7032402	1/10/2007	PW_THIELE	125	250	ES	459	MG/L	
	A7016121	1/5/2007	TW_62	125	250	ES	442	MG/L	
	A7334202	4/4/2007	PW_THIELE	125	250	ES	441	MG/L	
	A7006601	1/3/2007	TANKM3	125	250	ES	416	MG/L	
	A6049426	1/12/2006	TW_62	125	250	ES	407	MG/L	
	A6368821	4/6/2006	TW_62	125	250	ES	380	MG/L	
	A6B85107	10/10/2006	E094	125	250	ES	370	MG/L	
	A7385707	4/16/2007	TW_62	125	250	ES	367	MG/L	
	A6B89702	10/11/2006	PW_THIELE	125	250	ES	362	MG/L	
	A6353702	4/4/2006	PW_THIELE	125	250	ES	361	MG/L	
	A7803602	7/17/2007	PW_THIELE	125	250	ES	361	MG/L	
	A6834615	7/20/2006	E094	125	250	ES	357	MG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHLORIDE, TOTAL	A6834622	7/20/2006	TW_62	125	250	ES	354	MG/L	
	A6778502	7/10/2006	PW_THIELE	125	250	ES	352	MG/L	
	A6C57613	10/25/2006	TW_62	125	250	ES	348	MG/L	
	A6067202	1/18/2006	PW_THIELE	125	250	ES	340	MG/L	
	A7786015	7/13/2007	E094	125	250	ES	263	MG/L	
	A6049415	1/12/2006	E094	125	250	ES	261	MG/L	
	A6778401	7/10/2006	TANKM3	125	250	ES	258	MG/L	
	A7016101	1/5/2007	DUP-01	125	250	PAL	240	MG/L	
	A7385401	4/16/2007	DUP-01	125	250	PAL	237	MG/L	
	A7786020	7/13/2007	TW_62	125	250	PAL	232	MG/L	
	A6368812	4/6/2006	E093D	125	250	PAL	214	MG/L	
	A6834601	7/20/2006	DUP-01	125	250	PAL	210	MG/L	
	A6834613	7/20/2006	E093D	125	250	PAL	209	MG/L	
	A6B85101	10/10/2006	DUP-01	125	250	PAL	208	MG/L	
	A6B85105	10/10/2006	E093D	125	250	PAL	206	MG/L	
	A7016113	1/5/2007	E093D	125	250	PAL	197	MG/L	
	A6049413	1/12/2006	E093D	125	250	PAL	194	MG/L	
	A7385413	4/16/2007	E093D	125	250	PAL	186	MG/L	
	A7786013	7/13/2007	E093D	125	250	PAL	153	MG/L	
	A7385414	4/16/2007	E093P	125	250	PAL	153	MG/L	
	A6834614	7/20/2006	E093P	125	250	PAL	147	MG/L	
	A6B85106	10/10/2006	E093P	125	250	PAL	146	MG/L	
	A6368813	4/6/2006	E093P	125	250	PAL	143	MG/L	
	A7016114	1/5/2007	E093P	125	250	PAL	143	MG/L	
	A6359503	4/5/2006	EW-03R	125	250	PAL	142	MG/L	
	WMI_X402	1/12/2006	E137A	125	250	PAL	135	MG/L	
	A6049414	1/12/2006	E093P	125	250	PAL	130	MG/L	
	WMI_X410	4/6/2006	E137A	125	250	PAL	130	MG/L	
	A6B68601	10/6/2006	TANKM3	125	250	PAL	130	MG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHLORIDE, TOTAL	A7385406	4/16/2007	E137A	125	250	PAL	126	MG/L	
CHLOROFORM	364527	1/11/2006	FIELD BLANK	0.6	6	PAL	4	UG/L	
	367215	1/26/2006	FIELD BLANK	0.6	6	PAL	3.7	UG/L	
	367498	1/27/2006	DR-2	0.6	6	PAL	2.6	UG/L	
	491496	7/30/2007	TRUCK T30	0.6	6	PAL	2.5	UG/L	
	491498	7/30/2007	PUMP 1	0.6	6	PAL	1.5	UG/L	
	491497	7/30/2007	TRUCK T63	0.6	6	PAL	1.5	UG/L	
	477139	6/7/2007	E141A	0.6	6	PAL	1	UG/L	
	A7780606	7/12/2007	E141A	0.6	6	PAL	1	UG/L	
	A7385408	4/16/2007	E141A	0.6	6	PAL	0.77	UG/L	J
	373115	3/3/2006	FIELD BLANK	0.6	6	PAL	0.74	UG/L	
CHLOROMETHANE	E607005-24	7/20/2006	P064B	0.3	3	PAL	1.1	UG/L	
	E607003-01	7/19/2006	PW_PETERSON	0.3	3	PAL	1.1	UG/L	
	E607003-04	7/19/2006	TRIP BLANK 02	0.3	3	PAL	1.1	UG/L	
	E607004-01	7/18/2006	PW_MAGESKE	0.3	3	PAL	1	UG/L	
	E607005-05	7/20/2006	PW_TVITRANO	0.3	3	PAL	1	UG/L	
	E607005-31	7/21/2006	TRIP BLANK 05	0.3	3	PAL	0.8	UG/L	
	E706003-07	6/26/2007	P064A	0.3	3	PAL	0.7	UG/L	J
	E607005-16	7/20/2006	P064C	0.3	3	PAL	0.7	UG/L	
	E607004-03	7/18/2006	PW_02	0.3	3	PAL	0.6	UG/L	
	E706003-01	6/26/2007	PW_D HENNEBER D	0.3	3	PAL	0.6	UG/L	J
	E607003-03	7/19/2006	PW_LEONARD	0.3	3	PAL	0.6	UG/L	
	421347	9/11/2006	MW-03A	0.3	3	PAL	0.49	UG/L	
	373115	3/3/2006	FIELD BLANK	0.3	3	PAL	0.48	UG/L	
	421348	9/11/2006	CW07	0.3	3	PAL	0.41	UG/L	
	405103	7/11/2006	MW-03A	0.3	3	PAL	0.36	UG/L	
	A6743204	6/28/2006	PW_THIELE	0.3	3	PAL	0.34	UG/L	
	477520	6/8/2007	PW_MAGESKE	0.3	3	PAL	0.33	UG/L	B
	405104	7/11/2006	CW07	0.3	3	PAL	0.31	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
CHROMIUM	ME3K58	7/20/2006	MW_DYER DUP	10	100	ES	337	UG/L	
	ME3K57	7/20/2006	MW_DYER	10	100	ES	327	UG/L	
	E707001-01	7/17/2007	MW_DYER	10	100	PAL	22.9	UG/L	
	ME3K59	7/19/2006	PZ_DYER	10	100	PAL	10.2	UG/L	
CHROMIUM, DISSOLVED	A6749605	6/29/2006	MW-03AF	10	100	PAL	16.1	UG/L	
CHROMIUM, TOTAL	A6609602	5/30/2006	MW-03A	10	100	ES	115	UG/L	
	A6749604	6/29/2006	MW-03A	10	100	PAL	76.9	UG/L	
	A6B48401	10/3/2006	LF01	10	100	PAL	41.2	UG/L	
	A6609601	5/30/2006	MW-04A	10	100	PAL	20.6	UG/L	
	A6629206	6/2/2006	MW-01 DUP	10	100	PAL	19.1	UG/L	
	A6738306	6/27/2006	MW-04A	10	100	PAL	17.2	UG/L	
	A6629204	6/2/2006	MW-01	10	100	PAL	16.7	UG/L	
CIS-1,2-DICHLOROETHENE	A6368807	4/6/2006	E141A	7	70	PAL	8.1	UG/L	
COBALT	ME3K57	7/20/2006	MW_DYER	8	40	PAL	17.4	UG/L	Jj
	ME3K58	7/20/2006	MW_DYER DUP	8	40	PAL	17.1	UG/L	Jj
	E707001-01	7/17/2007	MW_DYER	8	40	PAL	8	UG/L	J
COBALT, TOTAL	A6609602	5/30/2006	MW-03A	8	40	PAL	39.8	UG/L	
	A6749604	6/29/2006	MW-03A	8	40	PAL	25.9	UG/L	
FLUORIDE	E707002-07	7/19/2007	PW_14	0.8	4	PAL	2.1	MG/L	
	E706003-03	6/26/2007	CO.PARK 1	0.8	4	PAL	1.2	MG/L	
	E706003-09	6/26/2007	CO.PARK 1 DUP	0.8	4	PAL	1.2	MG/L	
	E706004-04	6/27/2007	PW_LEONARD	0.8	4	PAL	1.2	MG/L	
	E706003-08	6/26/2007	PW_B HENNEBERRY	0.8	4	PAL	1.1	MG/L	
	E706003-01	6/26/2007	PW_D HENNEBER D	0.8	4	PAL	1.1	MG/L	
	E707001-04	7/17/2007	PW_J HENNEBER D	0.8	4	PAL	1.1	MG/L	
	E707001-03	7/17/2007	PW_J HENNEBERRY	0.8	4	PAL	1.1	MG/L	
	E706002-01	6/25/2007	PW_PETERSON	0.8	4	PAL	1.1	MG/L	
IRON	ME3K57	7/20/2006	MW_DYER	150	300	ES	28900	UG/L	
	ME3K58	7/20/2006	MW_DYER DUP	150	300	ES	28700	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON	E707001-06	7/17/2007	PW_AVITRANO	150	300	ES	14500	UG/L	
	E707001-01	7/17/2007	MW_DYER	150	300	ES	12500	UG/L	
	E706004-03	6/27/2007	PW_TVITRANO	150	300	ES	12000	UG/L	K
	ME3K50	7/19/2006	PW_LEONARD	150	300	ES	9630	UG/L	
	E707002-09	7/19/2007	PW_AVITRANO	150	300	ES	9400	UG/L	
	E707001-05	7/17/2007	PW_22 DUP	150	300	ES	8420	UG/L	
	ME3K59	7/19/2006	PZ_DYER	150	300	ES	8330	UG/L	
	ME3K63	7/20/2006	PW_09	150	300	ES	8040	UG/L	
	E706004-01	6/27/2007	PW_22	150	300	ES	7680	UG/L	K
	E706003-04	6/26/2007	PW_09	150	300	ES	6340	UG/L	
	ME3K66	7/20/2006	PW_AVITRANO	150	300	ES	5540	UG/L	
	ME3K73	7/20/2006	PW_22	150	300	ES	4450	UG/L	
	ME3K74	7/20/2006	PW_MITSCH	150	300	ES	4140	UG/L	
	ME3K67	7/20/2006	PW_TVITRANO	150	300	ES	3890	UG/L	
	E707002-02	7/18/2007	PW_MITSCH	150	300	ES	3740	UG/L	
	ME3K69	7/20/2006	PW_SAWYER	150	300	ES	3300	UG/L	
	E706004-02	6/27/2007	PW_AVITRANO	150	300	ES	3170	UG/L	K
	ME3K56	7/19/2006	PW_08	150	300	ES	3020	UG/L	
	E706004-07	6/27/2007	PW_AVITRANO D	150	300	ES	2660	UG/L	K
	ME3K62	7/20/2006	P064C	150	300	ES	2440	UG/L	
	E706003-06	6/26/2007	P064C	150	300	ES	2260	UG/L	
	E706002-04	6/25/2007	PW_08	150	300	ES	2210	UG/L	
	ME3K47	7/18/2006	PW_M DUP	150	300	ES	1980	UG/L	
	ME3K46	7/18/2006	PW_MAGESKE	150	300	ES	1950	UG/L	
	E706003-10	6/26/2007	PW_MAGESKE	150	300	ES	1890	UG/L	
	E707001-02	7/17/2007	PZ_DYER	150	300	ES	1750	UG/L	
	E707002-04	7/18/2007	STAGECOACH	150	300	ES	1750	UG/L	
	E706002-03	6/25/2007	PW_08	150	300	ES	1440	UG/L	
	E706003-09	6/26/2007	CO.PARK 1 DUP	150	300	ES	1070	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON	ME3K54	7/19/2006	CO.PARK 1	150	300	ES	1040	UG/L	
	E706003-03	6/26/2007	CO.PARK 1	150	300	ES	903	UG/L	
	ME3K71	7/20/2006	PW_52	150	300	ES	897	UG/L	
	E707002-08	7/19/2007	PW_52	150	300	ES	744	UG/L	
	E707001-04	7/17/2007	PW_J HENNEBER D	150	300	ES	723	UG/L	
	E707001-03	7/17/2007	PW_J HENNEBERRY	150	300	ES	698	UG/L	
	ME3K60	7/20/2006	P064A	150	300	ES	637	UG/L	
	E706003-01	6/26/2007	PW_D HENNEBER D	150	300	ES	598	UG/L	
	E706002-05	6/25/2007	PW_PRIES	150	300	ES	584	UG/L	
	ME3K52	7/19/2006	PW_PRIES	150	300	ES	572	UG/L	
	E707002-07	7/19/2007	PW_14	150	300	ES	536	UG/L	
	ME3K65	7/20/2006	PW_J HENNEBERRY	150	300	ES	527	UG/L	
	E706003-02	6/26/2007	CO.PARK 2	150	300	ES	522	UG/L	
	ME3K70	7/20/2006	PW_14	150	300	ES	490	UG/L	
	E706002-01	6/25/2007	PW_PETERSON	150	300	ES	462	UG/L	
	ME3K76	7/20/2006	PW_D HENNEBER D	150	300	ES	421	UG/L	
	ME3K75	7/20/2006	PW_D HENNEBERRY	150	300	ES	405	UG/L	
	E706004-04	6/27/2007	PW_LEONARD	150	300	ES	405	UG/L	K
	ME3K64	7/20/2006	PW_B HENNEBERRY	150	300	ES	387	UG/L	
	E707002-03	7/18/2007	PW_29	150	300	ES	368	UG/L	
	E706003-08	6/26/2007	PW_B HENNEBERRY	150	300	ES	366	UG/L	
	ME3K78	7/20/2006	PW_LEONARD	150	300	ES	361	UG/L	
	E706003-05	6/26/2007	P064B	150	300	PAL	299	UG/L	
	ME3K48	7/19/2006	PW_GUMIENY	150	300	PAL	297	UG/L	
	ME3K51	7/19/2006	PW_41	150	300	PAL	287	UG/L	
	E706003-07	6/26/2007	P064A	150	300	PAL	260	UG/L	
	E707002-01	7/18/2007	PW_41	150	300	PAL	256	UG/L	
	ME3K61	7/20/2006	P064B	150	300	PAL	250	UG/L	
IRON, DISSOLVED	A6749605	6/29/2006	MW-03AF	150	300	ES	13800	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON, DISSOLVED	A7767607	7/10/2007	E135A	150	300	ES	12100	UG/L	
	A7626707	6/6/2007	E135A	150	300	ES	11800	UG/L	
	A6368806	4/6/2006	E140	150	300	ES	11500	UG/L	
	A7385420	4/16/2007	EW-02	150	300	ES	9600	UG/L	
	A7385419	4/16/2007	EW-01	150	300	ES	8700	UG/L	
	A7385407	4/16/2007	E140	150	300	ES	8600	UG/L	
	A7385702	4/16/2007	EW-03R	150	300	ES	8200	UG/L	
	A7610304	6/4/2007	E137B	150	300	ES	6800	UG/L	
	A7767606	7/10/2007	E137B	150	300	ES	6100	UG/L	
	A7767605	7/10/2007	E137A	150	300	ES	5400	UG/L	
	A7385404	4/16/2007	E135A	150	300	ES	5300	UG/L	
	A7610305	6/4/2007	E137A	150	300	ES	4800	UG/L	
	A6368807	4/6/2006	E141A	150	300	ES	4200	UG/L	
	A7676804	6/15/2007	PW_AVITRANO	150	300	ES	4010	UG/L	
	WMI_X408	4/6/2006	E135A	150	300	ES	3800	UG/L	
	A7642802	6/8/2007	PW_22	150	300	ES	3720	UG/L	
	A7758903	7/9/2007	MW-04	150	300	ES	3700	UG/L	
	A7637106	6/7/2007	MW-04	150	300	ES	3560	UG/L	
	A7385410	4/16/2007	E017R	150	300	ES	3400	UG/L	
	A7780604	7/12/2007	MW-11A	150	300	ES	3270	UG/L	
	A7385701	4/16/2007	E102A	150	300	ES	3100	UG/L	
	A7676802	6/15/2007	PW_22	150	300	ES	3020	UG/L	
	A6051401	1/13/2006	TW_74R	150	300	ES	2900	UG/L	
	A7758901	7/9/2007	MW-14A	150	300	ES	2600	UG/L	
	A7767608	7/10/2007	E135B	150	300	ES	2400	UG/L	
	A7610301	6/4/2007	MW-03	150	300	ES	2400	UG/L	
	A7771909	7/11/2007	MW-03	150	300	ES	2400	UG/L	
	A7626708	6/6/2007	E135B	150	300	ES	2200	UG/L	
	A7626706	6/6/2007	MW-02	150	300	ES	2200	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON, DISSOLVED	A7767601	7/10/2007	MW-02	150	300	ES	2200	UG/L	
	A7626705	6/6/2007	MW-01A	150	300	ES	2100	UG/L	
	A7767604	7/10/2007	MW-01A	150	300	ES	2100	UG/L	
	A7767609	7/10/2007	DUP-04	150	300	ES	2000	UG/L	
	A6756905	6/30/2006	MW-01F	150	300	ES	1960	UG/L	
	A7385406	4/16/2007	E137A	150	300	ES	1900	UG/L	
	A7780605	7/12/2007	P064C	150	300	ES	1890	UG/L	
	A7642801	6/8/2007	PW_AVITRANO	150	300	ES	1820	UG/L	
	A7637103	6/7/2007	MW-14A	150	300	ES	1740	UG/L	
	A7676801	6/15/2007	PW_MAGESKE	150	300	ES	1730	UG/L	
	A7385408	4/16/2007	E141A	150	300	ES	1700	UG/L	
	A7771906	7/11/2007	MW-17	150	300	ES	1700	UG/L	
	A7780601	7/12/2007	DUP-03	150	300	ES	1640	UG/L	
	A7637101	6/7/2007	E093D	150	300	ES	1620	UG/L	
	A7771901	7/11/2007	E093D	150	300	ES	1600	UG/L	
	A7626711	6/6/2007	MW-01	150	300	ES	1600	UG/L	
	A7767603	7/10/2007	MW-01	150	300	ES	1600	UG/L	
	A7619305	6/5/2007	P064C	150	300	ES	1600	UG/L	
	A7637105	6/7/2007	MW-05	150	300	ES	1510	UG/L	
	A7619304	6/5/2007	E093D	150	300	ES	1500	UG/L	
	WMI_X410	4/6/2006	E137A	150	300	ES	1500	UG/L	
	A7771911	7/11/2007	MW-05 DUP	150	300	ES	1400	UG/L	
	A7385707	4/16/2007	TW_62	150	300	ES	1400	UG/L	
	A7771902	7/11/2007	MW-05	150	300	ES	1300	UG/L	
	A7771903	7/11/2007	MW-07	150	300	ES	1300	UG/L	
	A7619303	6/5/2007	MW-07	150	300	ES	1200	UG/L	
	A7626703	6/6/2007	MW-06	150	300	ES	1000	UG/L	
	A7626713	6/6/2007	MW-06 DUP	150	300	ES	990	UG/L	
	A7758902	7/9/2007	CW07	150	300	ES	960	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON, DISSOLVED	WMI_X413	4/6/2006	E095P	150	300	ES	960	UG/L	
	A6368812	4/6/2006	E093D	150	300	ES	940	UG/L	
	A7771905	7/11/2007	MW-06	150	300	ES	920	UG/L	
	A7626701	6/6/2007	MW-13A	150	300	ES	900	UG/L	
	A7676807	6/15/2007	PZ_STAGECOACH	150	300	ES	899	UG/L	
	A7619307	6/5/2007	CW07	150	300	ES	860	UG/L	
	A7642803	6/8/2007	PW_MAGESKE	150	300	ES	845	UG/L	
	A7780607	7/12/2007	MW-09	150	300	ES	801	UG/L	
	A7637102	6/7/2007	E140A	150	300	ES	756	UG/L	
	A7780603	7/12/2007	MW-10A	150	300	ES	725	UG/L	
	A7619301	6/5/2007	MW-10A	150	300	ES	680	UG/L	
	A7642806	6/8/2007	PZ_STAGECOACH	150	300	ES	611	UG/L	
	A7619302	6/5/2007	MW-09A	150	300	ES	610	UG/L	
	A6368809	4/6/2006	E017R	150	300	ES	580	UG/L	
	A7676806	6/15/2007	PZ_DYER	150	300	ES	516	UG/L	
	A7780606	7/12/2007	E141A	150	300	ES	487	UG/L	
	A7771907	7/11/2007	MW-17A	150	300	ES	470	UG/L	
	A7642804	6/8/2007	PZ_DYER	150	300	ES	446	UG/L	
	A7767611	7/10/2007	MW-13A	150	300	ES	430	UG/L	
	A7767613	7/10/2007	DUP-02	150	300	ES	410	UG/L	
	A7385708	4/16/2007	TW_74R	150	300	ES	380	UG/L	
	A6368811	4/6/2006	E092P	150	300	ES	360	UG/L	
	A7619308	6/5/2007	MW-11A	150	300	ES	320	UG/L	
	A6813201	7/17/2006	TW_74R	150	300	ES	320	UG/L	
	A7610303	6/4/2007	MW-03A	150	300	ES	300	UG/L	
	WMI_X412	4/6/2006	E095	150	300	PAL	260	UG/L	
	A7385417	4/16/2007	E095	150	300	PAL	200	UG/L	
	A7626704	6/6/2007	MW-17A	150	300	PAL	200	UG/L	
	A7385402	4/16/2007	DUP-02	150	300	PAL	190	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON, DISSOLVED	A7626709	6/6/2007	MW-17	150	300	PAL	160	UG/L	
	A7771910	7/11/2007	MW-03A	150	300	PAL	150	UG/L	
IRON, TOTAL	A6609602	5/30/2006	MW-03A	150	300	ES	92700	UG/L	
	A6749604	6/29/2006	MW-03A	150	300	ES	64000	UG/L	
	A6353702	4/4/2006	PW_THIELE	150	300	ES	21800	UG/L	
	A6B89702	10/11/2006	PW_THIELE	150	300	ES	20700	UG/L	
	A6629206	6/2/2006	MW-01 DUP	150	300	ES	14200	UG/L	
	A6629204	6/2/2006	MW-01	150	300	ES	13100	UG/L	
	A7032402	1/10/2007	PW_THIELE	150	300	ES	12400	UG/L	
	A6609601	5/30/2006	MW-04A	150	300	ES	10900	UG/L	
	A6738306	6/27/2006	MW-04A	150	300	ES	10900	UG/L	
	A6615107	5/31/2006	E137A	150	300	ES	10800	UG/L	
	A6743206	6/28/2006	E135A	150	300	ES	10300	UG/L	
	A6615104	5/31/2006	E135A	150	300	ES	9830	UG/L	
	A6749603	6/29/2006	E137A	150	300	ES	8800	UG/L	
	A6615106	5/31/2006	E137B	150	300	ES	7310	UG/L	
	A6749602	6/29/2006	E137B	150	300	ES	7110	UG/L	
	A6778502	7/10/2006	PW_THIELE	150	300	ES	4200	UG/L	
	A6756903	6/30/2006	MW-01A	150	300	ES	4080	UG/L	
	A6629203	6/2/2006	MW-01A	150	300	ES	3960	UG/L	
	A7334202	4/4/2007	PW_THIELE	150	300	ES	3600	UG/L	
	A7803602	7/17/2007	PW_THIELE	150	300	ES	3500	UG/L	
	A6609604	5/30/2006	PW_THIELE	150	300	ES	3450	UG/L	
	A6743204	6/28/2006	PW_THIELE	150	300	ES	3390	UG/L	
	A6615101	5/31/2006	MW-02	150	300	ES	3110	UG/L	
	A6067202	1/18/2006	PW_THIELE	150	300	ES	3100	UG/L	
	A6756904	6/30/2006	MW-01	150	300	ES	3080	UG/L	
	A6738303	6/27/2006	MW-02 DUP	150	300	ES	2760	UG/L	
	A6615102	5/31/2006	MW-03	150	300	ES	2690	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
IRON, TOTAL	A6738304	6/27/2006	MW-02	150	300	ES	2680	UG/L	
	A6756902	6/30/2006	MW-05	150	300	ES	2580	UG/L	
	A6743203	6/28/2006	MW-03	150	300	ES	2400	UG/L	
	A6622502	6/1/2006	MW-05	150	300	ES	2350	UG/L	
	A6629202	6/2/2006	MW-07	150	300	ES	2220	UG/L	
	A6615103	5/31/2006	E135B	150	300	ES	2140	UG/L	
	A6615105	5/31/2006	P064C	150	300	ES	2120	UG/L	
	A6743205	6/28/2006	E135B	150	300	ES	2020	UG/L	
	A6749607	6/29/2006	P064C	150	300	ES	1650	UG/L	
	A6743201	6/28/2006	MW-04	150	300	ES	1630	UG/L	
	A6629205	6/2/2006	E093D	150	300	ES	1610	UG/L	
	A6743207	6/28/2006	MW-07	150	300	ES	1370	UG/L	
	A6622505	6/1/2006	MW-04 DUP	150	300	ES	1350	UG/L	
	A6743209	6/28/2006	MW-07 DUP	150	300	ES	1340	UG/L	
	A6622503	6/1/2006	MW-04	150	300	ES	1330	UG/L	
	A6749601	6/29/2006	E093D	150	300	ES	1290	UG/L	
	A6738301	6/27/2006	MW-06	150	300	ES	1120	UG/L	
	A6609603	5/30/2006	MW-06	150	300	ES	1050	UG/L	
	A6749606	6/29/2006	CW07	150	300	ES	1010	UG/L	
	A6778401	7/10/2006	TANKM3	150	300	ES	920	UG/L	
	A6756901	6/30/2006	PW_SEYBOLD	150	300	ES	662	UG/L	
	A7334301	4/4/2007	TANKM3	150	300	ES	580	UG/L	
	A7006601	1/3/2007	TANKM3	150	300	ES	360	UG/L	
	A6743202	6/28/2006	CO.PARK 2	150	300	ES	310	UG/L	
	A6B68601	10/6/2006	TANKM3	150	300	PAL	150	UG/L	
LEAD	E706004-04	6/27/2007	PW_LEONARD	1.5	15	ES	70.5	UG/L	
	ME3K58	7/20/2006	MW_DYER DUP	1.5	15	PAL	13.8	UG/L	
	ME3K57	7/20/2006	MW_DYER	1.5	15	PAL	9.1	UG/L	Jj
	E706003-06	6/26/2007	P064C	1.5	15	PAL	5.6	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
LEAD	E707001-01	7/17/2007	MW_DYER	1.5	15	PAL	5.4	UG/L	
	E707002-04	7/18/2007	STAGECOACH	1.5	15	PAL	4.8	UG/L	
	E706003-02	6/26/2007	CO.PARK 2	1.5	15	PAL	2	UG/L	J
LEAD, DISSOLVED	A6749605	6/29/2006	MW-03AF	1.5	15	PAL	10	UG/L	
	A7780604	7/12/2007	MW-11A	1.5	15	PAL	1.54	UG/L	
LEAD, TOTAL	A6609602	5/30/2006	MW-03A	1.5	15	ES	67.3	UG/L	
	A6B48401	10/3/2006	LF01	1.5	15	ES	17.6	UG/L	
	A6B89702	10/11/2006	PW_THIELE	1.5	15	PAL	11.2	UG/L	
	A6749604	6/29/2006	MW-03A	1.5	15	PAL	9.4	UG/L	
	A6629206	6/2/2006	MW-01 DUP	1.5	15	PAL	5.1	UG/L	
	A6629204	6/2/2006	MW-01	1.5	15	PAL	4.7	UG/L	
	A6738306	6/27/2006	MW-04A	1.5	15	PAL	4.1	UG/L	
	A6615107	5/31/2006	E137A	1.5	15	PAL	3.6	UG/L	
	A6609601	5/30/2006	MW-04A	1.5	15	PAL	3.4	UG/L	
	A7032402	1/10/2007	PW_THIELE	1.5	15	PAL	3	UG/L	
	A6353702	4/4/2006	PW_THIELE	1.5	15	PAL	1.8	UG/L	
	A6609604	5/30/2006	PW_THIELE	1.5	15	PAL	1.8	UG/L	
	A6067202	1/18/2006	PW_THIELE	1.5	15	PAL	1.5	UG/L	
MANGANESE	ME3K58	7/20/2006	MW_DYER DUP	25	50	ES	766	UG/L	
	ME3K57	7/20/2006	MW_DYER	25	50	ES	765	UG/L	
	E707001-01	7/17/2007	MW_DYER	25	50	ES	389	UG/L	
	E707001-06	7/17/2007	PW_AVITRANO	25	50	ES	385	UG/L	
	ME3K59	7/19/2006	PZ_DYER	25	50	ES	280	UG/L	
	E706004-03	6/27/2007	PW_TVITRANO	25	50	ES	115	UG/L	
	E707001-05	7/17/2007	PW_22 DUP	25	50	ES	92.1	UG/L	
	ME3K74	7/20/2006	PW_MITSCH	25	50	ES	79.3	UG/L	
	E707002-02	7/18/2007	PW_MITSCH	25	50	ES	64.9	UG/L	
	ME3K45	7/18/2006	PW_02	25	50	ES	64.8	UG/L	
	E706002-02	6/25/2007	PW_02	25	50	ES	62.7	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE	ME3K50	7/19/2006	PW_LEONARD	25	50	ES	62.5	UG/L	
	E707002-09	7/19/2007	PW_AVITRANO	25	50	ES	62	UG/L	
	E706003-07	6/26/2007	P064A	25	50	ES	55.4	UG/L	
	ME3K69	7/20/2006	PW_SAWYER	25	50	ES	50.6	UG/L	
	ME3K62	7/20/2006	P064C	25	50	ES	50.5	UG/L	
	ME3K66	7/20/2006	PW_AVITRANO	25	50	ES	50	UG/L	
	E706003-06	6/26/2007	P064C	25	50	PAL	49.9	UG/L	
	E707001-02	7/17/2007	PZ_DYER	25	50	PAL	47.9	UG/L	
	ME3K63	7/20/2006	PW_09	25	50	PAL	42.8	UG/L	
	ME3K73	7/20/2006	PW_22	25	50	PAL	42.6	UG/L	
	ME3K60	7/20/2006	P064A	25	50	PAL	40.7	UG/L	
	E706004-02	6/27/2007	PW_AVITRANO	25	50	PAL	40.1	UG/L	
	E706004-01	6/27/2007	PW_22	25	50	PAL	37.3	UG/L	
	E706003-05	6/26/2007	P064B	25	50	PAL	36.5	UG/L	
	ME3K61	7/20/2006	P064B	25	50	PAL	35.6	UG/L	
	E706004-07	6/27/2007	PW_AVITRANO D	25	50	PAL	34.7	UG/L	
	E706003-04	6/26/2007	PW_09	25	50	PAL	31.5	UG/L	
	E707002-04	7/18/2007	STAGECOACH	25	50	PAL	28.3	UG/L	
MANGANESE, DISSOLVED	A7626712	6/6/2007	MW-15A	25	50	ES	1300	UG/L	
	A7767612	7/10/2007	MW-15A	25	50	ES	1300	UG/L	
	A6368808	4/6/2006	E141B	25	50	ES	784	UG/L	
	A7385409	4/16/2007	E141B	25	50	ES	778	UG/L	
	A7637103	6/7/2007	MW-14A	25	50	ES	609	UG/L	
	A7385701	4/16/2007	E102A	25	50	ES	569	UG/L	
	A7771908	7/11/2007	MW-08A	25	50	ES	550	UG/L	
	A7385419	4/16/2007	EW-01	25	50	ES	509	UG/L	
	A7758901	7/9/2007	MW-14A	25	50	ES	500	UG/L	
	A7767613	7/10/2007	DUP-02	25	50	ES	430	UG/L	
	A7767611	7/10/2007	MW-13A	25	50	ES	430	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE, DISSOLVED	A7385708	4/16/2007	TW_74R	25	50	ES	422	UG/L	
	A7610302	6/4/2007	MW-08A	25	50	ES	420	UG/L	
	A6368806	4/6/2006	E140	25	50	ES	413	UG/L	
	A7780606	7/12/2007	E141A	25	50	ES	408	UG/L	
	A7637102	6/7/2007	E140A	25	50	ES	405	UG/L	
	A6368807	4/6/2006	E141A	25	50	ES	395	UG/L	
	A7385408	4/16/2007	E141A	25	50	ES	337	UG/L	
	A7619309	6/5/2007	MW-10	25	50	ES	330	UG/L	
	A7626701	6/6/2007	MW-13A	25	50	ES	320	UG/L	
	A7780607	7/12/2007	MW-09	25	50	ES	318	UG/L	
	A6368809	4/6/2006	E017R	25	50	ES	316	UG/L	
	A7619302	6/5/2007	MW-09A	25	50	ES	300	UG/L	
	A7676804	6/15/2007	PW_AVITRANO	25	50	ES	265	UG/L	
	A7642801	6/8/2007	PW_AVITRANO	25	50	ES	235	UG/L	
	A6749605	6/29/2006	MW-03AF	25	50	ES	228	UG/L	
	A7771904	7/11/2007	MW-07S	25	50	ES	200	UG/L	
	A7619301	6/5/2007	MW-10A	25	50	ES	200	UG/L	
	A7385407	4/16/2007	E140	25	50	ES	188	UG/L	
	A7780602	7/12/2007	MW-10	25	50	ES	185	UG/L	
	A7780603	7/12/2007	MW-10A	25	50	ES	185	UG/L	
	A7626707	6/6/2007	E135A	25	50	ES	180	UG/L	
	A7767607	7/10/2007	E135A	25	50	ES	180	UG/L	
	A7626704	6/6/2007	MW-17A	25	50	ES	160	UG/L	
	WMI_X412	4/6/2006	E095	25	50	ES	158	UG/L	
	A7385404	4/16/2007	E135A	25	50	ES	155	UG/L	
	A7385417	4/16/2007	E095	25	50	ES	154	UG/L	
	A7385402	4/16/2007	DUP-02	25	50	ES	153	UG/L	
	A7385410	4/16/2007	E017R	25	50	ES	151	UG/L	
	A6359501	4/5/2006	EW-01	25	50	ES	143	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE, DISSOLVED	A7385702	4/16/2007	EW-03R	25	50	ES	142	UG/L	
	A6359505	4/5/2006	TW_74R	25	50	ES	135	UG/L	
	A7619306	6/5/2007	MW-07S	25	50	ES	130	UG/L	
	WMI_X408	4/6/2006	E135A	25	50	ES	120	UG/L	
	A7619310	6/5/2007	MW-07S DUP	25	50	ES	120	UG/L	
	WMI_X413	4/6/2006	E095P	25	50	ES	116	UG/L	
	WMI_X410	4/6/2006	E137A	25	50	ES	113	UG/L	
	A7385418	4/16/2007	E095P	25	50	ES	105	UG/L	
	A6359503	4/5/2006	EW-03R	25	50	ES	99.5	UG/L	
	A7385420	4/16/2007	EW-02	25	50	ES	86	UG/L	
	A7771907	7/11/2007	MW-17A	25	50	ES	84	UG/L	
	A7642805	6/8/2007	MW_DYER	25	50	ES	82.7	UG/L	
	A7626708	6/6/2007	E135B	25	50	ES	77	UG/L	
	A7767608	7/10/2007	E135B	25	50	ES	75	UG/L	
	A7767605	7/10/2007	E137A	25	50	ES	72	UG/L	
	A7676805	6/15/2007	MW_DYER	25	50	ES	70.2	UG/L	
	A7610305	6/4/2007	E137A	25	50	ES	70	UG/L	
	A7385405	4/16/2007	E135B	25	50	ES	69.6	UG/L	
	A7642807	6/8/2007	PZ_MOOSE	25	50	ES	67	UG/L	
	WMI_X409	4/6/2006	E135B	25	50	ES	65.6	UG/L	
	A7385406	4/16/2007	E137A	25	50	ES	62.9	UG/L	
	A7610304	6/4/2007	E137B	25	50	ES	62	UG/L	
	A6368814	4/6/2006	E094	25	50	ES	59.7	UG/L	
	A7619305	6/5/2007	P064C	25	50	ES	56	UG/L	
	A7758903	7/9/2007	MW-04	25	50	ES	53	UG/L	
	A7637106	6/7/2007	MW-04	25	50	ES	52.4	UG/L	
	A7385705	4/16/2007	P064C	25	50	ES	52.1	UG/L	
	A7767606	7/10/2007	E137B	25	50	ES	51	UG/L	
	A6368821	4/6/2006	TW_62	25	50	ES	50.7	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE, DISSOLVED	A7771901	7/11/2007	E093D	25	50	ES	50	UG/L	
	A7637101	6/7/2007	E093D	25	50	PAL	49.7	UG/L	
	A7780604	7/12/2007	MW-11A	25	50	PAL	49.6	UG/L	
	A7619307	6/5/2007	CW07	25	50	PAL	48	UG/L	
	A7758902	7/9/2007	CW07	25	50	PAL	48	UG/L	
	A7619304	6/5/2007	E093D	25	50	PAL	48	UG/L	
	A6359502	4/5/2006	EW-02	25	50	PAL	46.3	UG/L	
	A7780605	7/12/2007	P064C	25	50	PAL	43.9	UG/L	
	A6368812	4/6/2006	E093D	25	50	PAL	43	UG/L	
	A6368819	4/6/2006	P064C	25	50	PAL	42.8	UG/L	
	A7385401	4/16/2007	DUP-01	25	50	PAL	42.3	UG/L	
	A7642804	6/8/2007	PZ_DYER	25	50	PAL	42.2	UG/L	
	A7385416	4/16/2007	E094P	25	50	PAL	42.1	UG/L	
	A7626702	6/6/2007	MW-13S	25	50	PAL	42	UG/L	
	A7385415	4/16/2007	E094	25	50	PAL	41.6	UG/L	
	A6368815	4/6/2006	E094P	25	50	PAL	41.3	UG/L	
	A7676808	6/15/2007	PZ_MOOSE	25	50	PAL	41.1	UG/L	
	A7385413	4/16/2007	E093D	25	50	PAL	40.5	UG/L	
	A7385707	4/16/2007	TW_62	25	50	PAL	39.6	UG/L	
	A7780601	7/12/2007	DUP-03	25	50	PAL	37.7	UG/L	
	A7771906	7/11/2007	MW-17	25	50	PAL	36	UG/L	
	A7676806	6/15/2007	PZ_DYER	25	50	PAL	32.8	UG/L	
	A7676802	6/15/2007	PW_22	25	50	PAL	32	UG/L	
	A6368811	4/6/2006	E092P	25	50	PAL	31.7	UG/L	
	A7637105	6/7/2007	MW-05	25	50	PAL	31.4	UG/L	
	A7676801	6/15/2007	PW_MAGESKE	25	50	PAL	30.8	UG/L	
	A7767604	7/10/2007	MW-01A	25	50	PAL	30	UG/L	
	A7385412	4/16/2007	E092P	25	50	PAL	29.9	UG/L	
	A6368813	4/6/2006	E093P	25	50	PAL	29.3	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE, DISSOLVED	A7767601	7/10/2007	MW-02	25	50	PAL	29	UG/L	
	A7642802	6/8/2007	PW_22	25	50	PAL	29	UG/L	
	A7626705	6/6/2007	MW-01A	25	50	PAL	28	UG/L	
	A7626706	6/6/2007	MW-02	25	50	PAL	28	UG/L	
	A7771911	7/11/2007	MW-05 DUP	25	50	PAL	28	UG/L	
	A7767609	7/10/2007	DUP-04	25	50	PAL	26	UG/L	
	A7610301	6/4/2007	MW-03	25	50	PAL	26	UG/L	
	A7771909	7/11/2007	MW-03	25	50	PAL	26	UG/L	
	A7771902	7/11/2007	MW-05	25	50	PAL	26	UG/L	
MANGANESE, TOTAL	A6609602	5/30/2006	MW-03A	25	50	ES	1430	UG/L	
	A6749604	6/29/2006	MW-03A	25	50	ES	921	UG/L	
	A6615107	5/31/2006	E137A	25	50	ES	254	UG/L	
	A6622503	6/1/2006	MW-04	25	50	ES	215	UG/L	
	A6622505	6/1/2006	MW-04 DUP	25	50	ES	211	UG/L	
	A6629206	6/2/2006	MW-01 DUP	25	50	ES	208	UG/L	
	A6629204	6/2/2006	MW-01	25	50	ES	195	UG/L	
	A6743201	6/28/2006	MW-04	25	50	ES	191	UG/L	
	A6743206	6/28/2006	E135A	25	50	ES	166	UG/L	
	A6738306	6/27/2006	MW-04A	25	50	ES	155	UG/L	
	A6615104	5/31/2006	E135A	25	50	ES	148	UG/L	
	A6609601	5/30/2006	MW-04A	25	50	ES	144	UG/L	
	A6749603	6/29/2006	E137A	25	50	ES	123	UG/L	
	A6622502	6/1/2006	MW-05	25	50	ES	106	UG/L	
	A7032402	1/10/2007	PW_THIELE	25	50	ES	91.4	UG/L	
	A6353702	4/4/2006	PW_THIELE	25	50	ES	75.9	UG/L	
	A6067202	1/18/2006	PW_THIELE	25	50	ES	73.8	UG/L	
	A6756902	6/30/2006	MW-05	25	50	ES	72.8	UG/L	
	A6615105	5/31/2006	P064C	25	50	ES	72.3	UG/L	
	A6615103	5/31/2006	E135B	25	50	ES	72.1	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
MANGANESE, TOTAL	A6743205	6/28/2006	E135B	25	50	ES	66.8	UG/L	
	A6629203	6/2/2006	MW-01A	25	50	ES	63.1	UG/L	
	A6B89702	10/11/2006	PW_THIELE	25	50	ES	60.4	UG/L	
	A6756903	6/30/2006	MW-01A	25	50	ES	57.9	UG/L	
	A6629202	6/2/2006	MW-07	25	50	ES	57	UG/L	
	A6749602	6/29/2006	E137B	25	50	ES	56.2	UG/L	
	A6615106	5/31/2006	E137B	25	50	ES	55.8	UG/L	
	A6749607	6/29/2006	P064C	25	50	PAL	49.5	UG/L	
	A6749606	6/29/2006	CW07	25	50	PAL	47.6	UG/L	
	A6629205	6/2/2006	E093D	25	50	PAL	46	UG/L	
	A6749601	6/29/2006	E093D	25	50	PAL	37.8	UG/L	
	A6615101	5/31/2006	MW-02	25	50	PAL	37.7	UG/L	
	A6756904	6/30/2006	MW-01	25	50	PAL	37.2	UG/L	
	A6738303	6/27/2006	MW-02 DUP	25	50	PAL	30.8	UG/L	
	A6615102	5/31/2006	MW-03	25	50	PAL	30.1	UG/L	
	A6738304	6/27/2006	MW-02	25	50	PAL	29.8	UG/L	
	A6743203	6/28/2006	MW-03	25	50	PAL	25.8	UG/L	
METHYLENE CHLORIDE	E707001-04	7/17/2007	PW_J HENNEBER D	0.5	5	ES	60	UG/L	
	E707001-06	7/17/2007	PW_AVITRANO	0.5	5	ES	59	UG/L	
	E707001-03	7/17/2007	PW_J HENNEBERRY	0.5	5	ES	57	UG/L	
	E707002-03	7/18/2007	PW_29	0.5	5	ES	56	UG/L	J
	E707001-01	7/17/2007	MW_DYER	0.5	5	ES	55	UG/L	
	E707002-08R	7/19/2007	PW_52	0.5	5	ES	51	UG/L	J
	E707001-02	7/17/2007	PZ_DYER	0.5	5	ES	50	UG/L	
	E707002-04	7/18/2007	STAGECOACH	0.5	5	ES	50	UG/L	
	E707002-07	7/19/2007	PW_14	0.5	5	ES	49	UG/L	
	E707001-05	7/17/2007	PW_22 DUP	0.5	5	ES	49	UG/L	
	E707002-01	7/18/2007	PW_41	0.5	5	ES	49	UG/L	
	E707002-09	7/19/2007	PW_AVITRANO	0.5	5	ES	45	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
METHYLENE CHLORIDE	E707002-05	7/18/2007	FIELD BLANK 2	0.5	5	ES	44	UG/L	
	E707001-07	7/17/2007	TRIP BLANK	0.5	5	ES	36	UG/L	J
	E707002-02	7/18/2007	PW_MITSCH	0.5	5	ES	34	UG/L	
	E707002-06	7/18/2007	TRIP BLANK	0.5	5	ES	32	UG/L	J
	E707002-10	7/19/2007	TRIP BLANK	0.5	5	ES	31	UG/L	J
	E706003-03	6/26/2007	CO.PARK 1	0.5	5	ES	14	UG/L	
	421349	9/11/2006	TRIP BLANK	0.5	5	ES	6.7	UG/L	A
	E706003-08	6/26/2007	PW_B HENNEBERRY	0.5	5	ES	5.7	UG/L	
	E706003-11	6/26/2007	FIELD BLANK	0.5	5	ES	5.2	UG/L	
	393604	5/30/2006	TRIP BLANK	0.5	5	PAL	4.6	UG/L	
	E706003-05	6/26/2007	P064B	0.5	5	PAL	4	UG/L	
	E706003-02	6/26/2007	CO.PARK 2	0.5	5	PAL	3.7	UG/L	
	E706002-03	6/25/2007	PW_08	0.5	5	PAL	3.7	UG/L	
	367499	1/27/2006	TRIP BLANK	0.5	5	PAL	3.6	UG/L	AB
	372050	2/22/2006	TRIP BLANK	0.5	5	PAL	3.6	UG/L	AB
	E706003-09	6/26/2007	CO.PARK 1 DUP	0.5	5	PAL	3.4	UG/L	
	E706002-01	6/25/2007	PW_PETERSON	0.5	5	PAL	3.4	UG/L	
	E706003-06	6/26/2007	P064C	0.5	5	PAL	3.3	UG/L	
	E706002-05	6/25/2007	PW_PRIES	0.5	5	PAL	3.3	UG/L	
	446764	12/20/2006	TRIP BLANK	0.5	5	PAL	3.3	UG/L	AB
	E706002-02	6/25/2007	PW_02	0.5	5	PAL	2.9	UG/L	
	E706002-04	6/25/2007	PW_08	0.5	5	PAL	2.9	UG/L	
	364529	1/11/2006	TRIP BLANK	0.5	5	PAL	2.9	UG/L	A
	439953	11/13/2006	TRIP BLANK	0.5	5	PAL	2.8	UG/L	AB
	367220	1/24/2006	TRIP BLANK	0.5	5	PAL	2.5	UG/L	
	389297	5/12/2006	TRIP BLANK	0.5	5	PAL	2.4	UG/L	AB
	389291	5/12/2006	TRIP BLANK	0.5	5	PAL	2.4	UG/L	AB
	E706003-04	6/26/2007	PW_09	0.5	5	PAL	2.3	UG/L	
	372352	2/28/2006	TRIP BLANK	0.5	5	PAL	2.2	UG/L	ABQ

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
METHYLENE CHLORIDE	E706003-01	6/26/2007	PW_D HENNEBER D	0.5	5	PAL	2.1	UG/L	
	E706003-10	6/26/2007	PW_MAGESKE	0.5	5	PAL	2.1	UG/L	
	372260	2/27/2006	TRIP BLANK	0.5	5	PAL	2.1	UG/L	ABQ
	E706003-07	6/26/2007	P064A	0.5	5	PAL	1.9	UG/L	
	414664	8/16/2006	TRIP BLANK	0.5	5	PAL	1.8	UG/L	AB
	E706004-06	6/27/2007	TRIP BLANK	0.5	5	PAL	1.4	UG/L	
	430896	10/10/2006	TRIP BLANK	0.5	5	PAL	1.3	UG/L	B
	E706003-12	6/26/2007	TRIP BLANK	0.5	5	PAL	1.3	UG/L	
	477525	6/8/2007	TRIP BLANK	0.5	5	PAL	1.2	UG/L	
	456738	2/27/2007	TRIP BLANK	0.5	5	PAL	1.1	UG/L	AB
	414662	8/16/2006	MW-03A	0.5	5	PAL	1	UG/L	AB
	491500	7/30/2007	TRIP BLANK	0.5	5	PAL	0.99	UG/L	BQ
	414663	8/16/2006	CW07	0.5	5	PAL	0.86	UG/L	AB
	448961	1/5/2007	TRIP BLANK	0.5	5	PAL	0.81	UG/L	Bz
	439951	11/13/2006	MW-03A	0.5	5	PAL	0.71	UG/L	AB
	A6609602	5/30/2006	MW-03A	0.5	5	PAL	0.69	UG/L	AB
	430894	10/10/2006	MW-03A	0.5	5	PAL	0.67	UG/L	B
	A6622503	6/1/2006	MW-04	0.5	5	PAL	0.67	UG/L	B
	439952	11/13/2006	CW07	0.5	5	PAL	0.66	UG/L	AB
	393588	6/1/2006	DUP-02	0.5	5	PAL	0.62	UG/L	B
	A6622505	6/1/2006	MW-04 DUP	0.5	5	PAL	0.62	UG/L	B
	A6609601	5/30/2006	MW-04A	0.5	5	PAL	0.53	UG/L	AB
	456736	2/27/2007	PW_PRIES	0.5	5	PAL	0.51	UG/L	AB
NICKEL	ME3K58	7/20/2006	MW_DYER DUP	20	100	ES	177	UG/L	
	ME3K57	7/20/2006	MW_DYER	20	100	ES	175	UG/L	
	E707001-01	7/17/2007	MW_DYER	20	100	PAL	22.9	UG/L	J
NICKEL, TOTAL	A6B48401	10/3/2006	LF01	20	100	ES	147	UG/L	
	A6609602	5/30/2006	MW-03A	20	100	ES	123	UG/L	
	A6749604	6/29/2006	MW-03A	20	100	PAL	78.1	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
NITROGEN, NITRATE	A7626702	6/6/2007	MW-13S	2	10	PAL	3.4	MG/L	
	A7767610	7/10/2007	MW-13S	2	10	PAL	3	MG/L	
SULFATE	A7619310	6/5/2007	MW-07S DUP	125	250	PAL	190	MG/L	
	A7619306	6/5/2007	MW-07S	125	250	PAL	184	MG/L	
	A6615101	5/31/2006	MW-02	125	250	PAL	170	MG/L	
	A7637102	6/7/2007	E140A	125	250	PAL	155	MG/L	
	A7771904	7/11/2007	MW-07S	125	250	PAL	154	MG/L	
	A7011304	1/4/2007	MW-02	125	250	PAL	144	MG/L	
	A6738303	6/27/2006	MW-02 DUP	125	250	PAL	144	MG/L	
	A7780606	7/12/2007	E141A	125	250	PAL	143	MG/L	
	A6738304	6/27/2006	MW-02	125	250	PAL	142	MG/L	
	A7626706	6/6/2007	MW-02	125	250	PAL	142	MG/L	
	A7354202	4/10/2007	MW-02	125	250	PAL	138	MG/L	
	A7610302	6/4/2007	MW-08A	125	250	PAL	128	MG/L	
	A7767601	7/10/2007	MW-02	125	250	PAL	125	MG/L	
SULFATE, TOTAL	A6049426	1/12/2006	TW_62	125	250	PAL	211	MG/L	
	A7016116	1/5/2007	E094P	125	250	PAL	198	MG/L	
	A6834616	7/20/2006	E094P	125	250	PAL	189	MG/L	
	A6B85108	10/10/2006	E094P	125	250	PAL	187	MG/L	
	A6368821	4/6/2006	TW_62	125	250	PAL	185	MG/L	
	A6368815	4/6/2006	E094P	125	250	PAL	178	MG/L	
	A7385416	4/16/2007	E094P	125	250	PAL	178	MG/L	
	A6834622	7/20/2006	TW_62	125	250	PAL	178	MG/L	
	A6C57613	10/25/2006	TW_62	125	250	PAL	174	MG/L	
	A6049416	1/12/2006	E094P	125	250	PAL	172	MG/L	
	A7385707	4/16/2007	TW_62	125	250	PAL	172	MG/L	
	A7786020	7/13/2007	TW_62	125	250	PAL	171	MG/L	
	A7016121	1/5/2007	TW_62	125	250	PAL	167	MG/L	
	A7786016	7/13/2007	E094P	125	250	PAL	163	MG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
SULFATE, TOTAL	A6778401	7/10/2006	TANKM3	125	250	PAL	155	MG/L	
TETRACHLOROETHENE	E607004-03	7/18/2006	PW_02	0.5	5	PAL	0.6	UG/L	
	WMI_X407	4/6/2006	E123B	0.5	5	PAL	0.53	UG/L	J
	A7385403	4/16/2007	E123B	0.5	5	PAL	0.52	UG/L	J
	E706002-02	6/25/2007	PW_02	0.5	5	PAL	0.5	UG/L	J
TETRAHYDROFURAN	485465	7/9/2007	TRIP BLANK	10	50	ES	110	UG/L	
	401372	6/27/2006	FIELD BLANK	10	50	PAL	19	UG/L	
	393598	5/31/2006	FIELD BLANK	10	50	PAL	11	UG/L	
	A6615108	5/31/2006	FIELD BLANK	10	50	PAL	11	UG/L	
THALLIUM	E707001-01	7/17/2007	MW_DYER	0.4	2	PAL	0.5	UG/L	J
THALLIUM, TOTAL	A6609602	5/30/2006	MW-03A	0.4	2	PAL	0.59	UG/L	
TRICHLOROETHENE	A6368807	4/6/2006	E141A	0.5	5	PAL	2.4	UG/L	
	A7767613	7/10/2007	DUP-02	0.5	5	PAL	2	UG/L	
	A7385408	4/16/2007	E141A	0.5	5	PAL	2	UG/L	
	477139	6/7/2007	E141A	0.5	5	PAL	1.8	UG/L	
	A7780606	7/12/2007	E141A	0.5	5	PAL	1.7	UG/L	
	A7767611	7/10/2007	MW-13A	0.5	5	PAL	1.7	UG/L	
	477153	6/7/2007	MW-13A	0.5	5	PAL	1	UG/L	
	E607004-03	7/18/2006	PW_02	0.5	5	PAL	0.9	UG/L	
	E607005-11	7/20/2006	PW_52	0.5	5	PAL	0.9	UG/L	
	E707002-08R	7/19/2007	PW_52	0.5	5	PAL	0.9	UG/L	JL
	E706002-02	6/25/2007	PW_02	0.5	5	PAL	0.8	UG/L	J
	479513	6/15/2007	PZ_MOOSE	0.5	5	PAL	0.69	UG/L	T
	477524	6/8/2007	PZ_MOOSE	0.5	5	PAL	0.62	UG/L	
	A6359503	4/5/2006	EW-03R	0.5	5	PAL	0.5	UG/L	J
VANADIUM	E707001-01	7/17/2007	MW_DYER	6	30	PAL	19.6	UG/L	J
VANADIUM, DISSOLVED	A6749605	6/29/2006	MW-03AF	6	30	PAL	19.3	UG/L	
	A7780604	7/12/2007	MW-11A	6	30	PAL	9.8	UG/L	
VANADIUM, TOTAL	A6609602	5/30/2006	MW-03A	6	30	ES	126	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
VANADIUM, TOTAL	A6749604	6/29/2006	MW-03A	6	30	ES	88.4	UG/L	
	A6609601	5/30/2006	MW-04A	6	30	PAL	27.2	UG/L	
	A6629206	6/2/2006	MW-01 DUP	6	30	PAL	22.3	UG/L	
	A6629204	6/2/2006	MW-01	6	30	PAL	20.7	UG/L	
	A6738306	6/27/2006	MW-04A	6	30	PAL	20.5	UG/L	
VINYL CHLORIDE	477149	6/7/2007	MW-01A	0.02	0.2	ES	8.4	UG/L	
	A7767609	7/10/2007	DUP-04	0.02	0.2	ES	7.1	UG/L	
	A7767604	7/10/2007	MW-01A	0.02	0.2	ES	7	UG/L	
	A6756903	6/30/2006	MW-01A	0.02	0.2	ES	6.8	UG/L	
	A6629203	6/2/2006	MW-01A	0.02	0.2	ES	6.1	UG/L	
	465114	4/10/2007	MW-01A	0.02	0.2	ES	5.7	UG/L	
	448579	1/4/2007	MW-01A	0.02	0.2	ES	5.2	UG/L	
	E706002-04	6/25/2007	PW_08	0.02	0.2	ES	4.2	UG/L	J
	E706002-03	6/25/2007	PW_08	0.02	0.2	ES	4.2	UG/L	J
	A6368812	4/6/2006	E093D	0.02	0.2	ES	3.5	UG/L	
	477138	6/7/2007	E093D	0.02	0.2	ES	3.5	UG/L	
	E607005-13	7/20/2006	PW_22	0.02	0.2	ES	3.5	UG/L	
	E706004-01	6/27/2007	PW_22	0.02	0.2	ES	3.2	UG/L	J
	A6629205	6/2/2006	E093D	0.02	0.2	ES	3.1	UG/L	
	A6749601	6/29/2006	E093D	0.02	0.2	ES	3.1	UG/L	
	477523	6/8/2007	PZ_STAGECOACH	0.02	0.2	ES	3	UG/L	
	476488	6/5/2007	E093D	0.02	0.2	ES	2.9	UG/L	
	A7771901	7/11/2007	E093D	0.02	0.2	ES	2.7	UG/L	
	E607005-16	7/20/2006	P064C	0.02	0.2	ES	2.7	UG/L	
	E707001-05	7/17/2007	PW_22 DUP	0.02	0.2	ES	2.7	UG/L	
	A6368819	4/6/2006	P064C	0.02	0.2	ES	2.6	UG/L	
	A6749607	6/29/2006	P064C	0.02	0.2	ES	2.5	UG/L	
	A6615105	5/31/2006	P064C	0.02	0.2	ES	2.4	UG/L	
	E706004-02	6/27/2007	PW_AVITRANO	0.02	0.2	ES	2.4	UG/L	J

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
VINYL CHLORIDE	E707001-06	7/17/2007	PW_AVITRANO	0.02	0.2	ES	2.3	UG/L	
	A6756902	6/30/2006	MW-05	0.02	0.2	ES	2.1	UG/L	
	A7780605	7/12/2007	P064C	0.02	0.2	ES	2	UG/L	
	A7780601	7/12/2007	DUP-03	0.02	0.2	ES	1.9	UG/L	
	465117	4/10/2007	MW-05	0.02	0.2	ES	1.9	UG/L	
	477134	6/7/2007	MW-05	0.02	0.2	ES	1.9	UG/L	
	A7385401	4/16/2007	DUP-01	0.02	0.2	ES	1.8	UG/L	
	A6622502	6/1/2006	MW-05	0.02	0.2	ES	1.8	UG/L	
	476489	6/5/2007	P064C	0.02	0.2	ES	1.8	UG/L	
	479514	6/15/2007	PZ_STAGECOACH	0.02	0.2	ES	1.8	UG/L	T
	477519	6/8/2007	PW_22	0.02	0.2	ES	1.7	UG/L	
	479519	6/15/2007	PW_22	0.02	0.2	ES	1.7	UG/L	T
	448575	1/3/2007	MW-05	0.02	0.2	ES	1.6	UG/L	
	448584	1/3/2007	MW-05 DUP	0.02	0.2	ES	1.6	UG/L	
	477518	6/8/2007	PW_AVITRANO	0.02	0.2	ES	1.6	UG/L	
	479517	6/15/2007	PW_AVITRANO	0.02	0.2	ES	1.6	UG/L	T
	477137	6/7/2007	MW-04	0.02	0.2	ES	1.5	UG/L	
	A7771902	7/11/2007	MW-05	0.02	0.2	ES	1.5	UG/L	
	A7771911	7/11/2007	MW-05 DUP	0.02	0.2	ES	1.5	UG/L	
	E706004-03	6/27/2007	PW_TVITRANO	0.02	0.2	ES	1.4	UG/L	J
	465590	4/11/2007	MW-04	0.02	0.2	ES	1.3	UG/L	
	A7758903	7/9/2007	MW-04	0.02	0.2	ES	1.2	UG/L	
	E607005-26	7/20/2006	PW_08	0.02	0.2	ES	1.2	UG/L	
	465119	4/9/2007	MW-01 DUP	0.02	0.2	ES	1.1	UG/L	
	448960	1/5/2007	MW-04	0.02	0.2	ES	1.1	UG/L	
	A7385705	4/16/2007	P064C	0.02	0.2	ES	1.1	UG/L	
	E607005-22	7/20/2006	PW_09	0.02	0.2	ES	1.1	UG/L	
	E706003-04	6/26/2007	PW_09	0.02	0.2	ES	1.1	UG/L	J
	A6756904	6/30/2006	MW-01	0.02	0.2	ES	1	UG/L	

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
VINYL CHLORIDE	A7767612	7/10/2007	MW-15A	0.02	0.2	ES	1	UG/L	
	E607005-06	7/20/2006	PW_AVITRANO	0.02	0.2	ES	1	UG/L	
	401369	6/28/2006	DUP-02	0.02	0.2	ES	0.97	UG/L	
	A6743209	6/28/2006	MW-07 DUP	0.02	0.2	ES	0.97	UG/L	
	A6743201	6/28/2006	MW-04	0.02	0.2	ES	0.94	UG/L	
	A6743207	6/28/2006	MW-07	0.02	0.2	ES	0.94	UG/L	
	A7758901	7/9/2007	MW-14A	0.02	0.2	ES	0.92	UG/L	
	A7767603	7/10/2007	MW-01	0.02	0.2	ES	0.91	UG/L	
	477143	6/7/2007	MW-01	0.02	0.2	ES	0.9	UG/L	
	477148	6/7/2007	MW-15A	0.02	0.2	ES	0.88	UG/L	
	465113	4/9/2007	MW-01	0.02	0.2	ES	0.87	UG/L	
	393584	6/2/2006	DUP-03	0.02	0.2	ES	0.86	UG/L	
	A6629204	6/2/2006	MW-01	0.02	0.2	ES	0.86	UG/L	
	A6629206	6/2/2006	MW-01 DUP	0.02	0.2	ES	0.86	UG/L	
	A6629202	6/2/2006	MW-07	0.02	0.2	ES	0.83	UG/L	
	465589	4/11/2007	MW-07	0.02	0.2	ES	0.83	UG/L	
	448578	1/4/2007	MW-01	0.02	0.2	ES	0.81	UG/L	
	A6743203	6/28/2006	MW-03	0.02	0.2	ES	0.81	UG/L	
	465591	4/11/2007	MW-07 DUP	0.02	0.2	ES	0.81	UG/L	
	A6359503	4/5/2006	EW-03R	0.02	0.2	ES	0.78	UG/L	J
	476487	6/5/2007	MW-07	0.02	0.2	ES	0.75	UG/L	
	A7771903	7/11/2007	MW-07	0.02	0.2	ES	0.75	UG/L	
	E706003-06	6/26/2007	P064C	0.02	0.2	ES	0.7	UG/L	J
	448577	1/3/2007	MW-07	0.02	0.2	ES	0.67	UG/L	
	465112	4/10/2007	MW-03	0.02	0.2	ES	0.64	UG/L	
	448582	1/4/2007	MW-03	0.02	0.2	ES	0.63	UG/L	
	476479	6/4/2007	MW-03	0.02	0.2	ES	0.63	UG/L	
	393588	6/1/2006	DUP-02	0.02	0.2	ES	0.62	UG/L	
	A6622505	6/1/2006	MW-04 DUP	0.02	0.2	ES	0.62	UG/L	

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PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
VINYL CHLORIDE	A6615102	5/31/2006	MW-03	0.02	0.2	ES	0.6	UG/L	
	A6622503	6/1/2006	MW-04	0.02	0.2	ES	0.6	UG/L	
	477145	6/7/2007	E135A	0.02	0.2	ES	0.59	UG/L	
	448585	1/4/2007	MW-03 DUP	0.02	0.2	ES	0.59	UG/L	
	A7771909	7/11/2007	MW-03	0.02	0.2	ES	0.56	UG/L	
	A6749603	6/29/2006	E137A	0.02	0.2	ES	0.53	UG/L	
	A7780607	7/12/2007	MW-09	0.02	0.2	ES	0.52	UG/L	
	477150	6/7/2007	MW-17A	0.02	0.2	ES	0.52	UG/L	
	A7771907	7/11/2007	MW-17A	0.02	0.2	ES	0.52	UG/L	
	A7767607	7/10/2007	E135A	0.02	0.2	ES	0.51	UG/L	
	E607005-05	7/20/2006	PW_TVITRANO	0.02	0.2	ES	0.5	UG/L	
	A6743204	6/28/2006	PW_THIELE	0.02	0.2	ES	0.49	UG/L	
	A7610304	6/4/2007	E137B	0.02	0.2	ES	0.48	UG/L	
	389294	5/12/2006	PW_THIELE	0.02	0.2	ES	0.48	UG/L	
	A6749602	6/29/2006	E137B	0.02	0.2	ES	0.46	UG/L	
	A7610305	6/4/2007	E137A	0.02	0.2	ES	0.44	UG/L	
	A7767606	7/10/2007	E137B	0.02	0.2	ES	0.44	UG/L	
	A6615107	5/31/2006	E137A	0.02	0.2	ES	0.43	UG/L	
	A6609604	5/30/2006	PW_THIELE	0.02	0.2	ES	0.42	UG/L	
	A7767605	7/10/2007	E137A	0.02	0.2	ES	0.41	UG/L	
	476492	6/5/2007	MW-11A	0.02	0.2	ES	0.41	UG/L	
	A6615106	5/31/2006	E137B	0.02	0.2	ES	0.36	UG/L	
	A6743206	6/28/2006	E135A	0.02	0.2	ES	0.32	UG/L	
	A7771908	7/11/2007	MW-08A	0.02	0.2	ES	0.3	UG/L	
	477139	6/7/2007	E141A	0.02	0.2	ES	0.28	UG/L	
	A7780604	7/12/2007	MW-11A	0.02	0.2	ES	0.22	UG/L	
	A6615104	5/31/2006	E135A	0.02	0.2	ES	0.2	UG/L	
	A7767608	7/10/2007	E135B	0.02	0.2	PAL	0.17	UG/L	
	479520	6/15/2007	PW_MAGESKE	0.02	0.2	PAL	0.17	UG/L	T

52

PARAMETER	LAB ID	SAMPLE DATE	SAMPLE ID	PAL	ES	EXCEEDENCE	RESULT	UNITS	QUALIFIER
VINYL CHLORIDE	477144	6/7/2007	E135B	0.02	0.2	PAL	0.16	UG/L	
	476481	6/4/2007	MW-08A	0.02	0.2	PAL	0.14	UG/L	
	E707002-04	7/18/2007	STAGECOACH	0.02	0.2	PAL	0.14	UG/L	J
	E707002-02	7/18/2007	PW_MITSCH	0.02	0.2	PAL	0.13	UG/L	J
	A6743205	6/28/2006	E135B	0.02	0.2	PAL	0.11	UG/L	
	A7780606	7/12/2007	E141A	0.02	0.2	PAL	0.099	UG/L	
	A6615103	5/31/2006	E135B	0.02	0.2	PAL	0.091	UG/L	
	E707002-09	7/19/2007	PW_AVITRANO	0.02	0.2	PAL	0.08	UG/L	J
	A6609601	5/30/2006	MW-04A	0.02	0.2	PAL	0.05	UG/L	J
	389296	5/12/2006	MW-03A	0.02	0.2	PAL	0.034	UG/L	J
	A6609602	5/30/2006	MW-03A	0.02	0.2	PAL	0.029	UG/L	J
	A6615108	5/31/2006	FIELD BLANK	0.02	0.2	PAL	0.023	UG/L	J
	393598	5/31/2006	FIELD BLANK	0.02	0.2	PAL	0.023	UG/L	J

Appendix M
Selected Photographs

Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
1	10/26/06

Description

Setup of decontamination pad on landfill property.

Photo No.	Date
2	10/26/05

Description

Setup of rotosonic rig over MW03.

Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
3	10/27/06

Description

Sediment collected from MW03 from 78-88 feet below ground surface.

Photo No.	Date
4	11/2/05

Description

Rotosonic rig setup over MW02.

Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
5	11/15/05

Description

Stainless-steel screen used to sample during drilling.

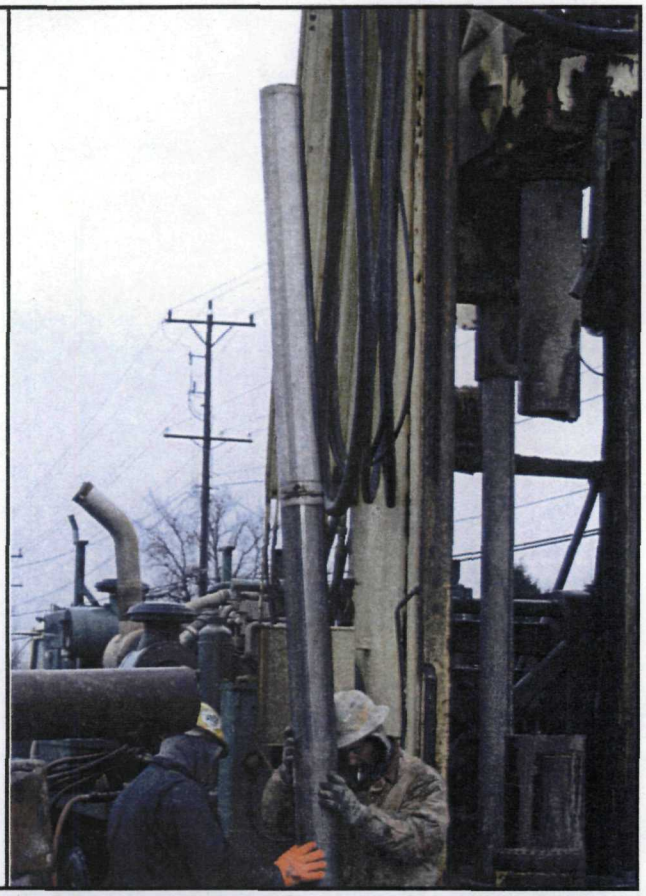


Photo No.	Date
6	1/3/06

Description

Bedrock encountered at MW03A at base of borehole.

3

Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
7	1/11/06

Description

Bedrock encountered at MW05.

Photo No.	Date
8	2/24/06

Description

Rig delay, pump for sampling in foreground.

4

Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
9	3/14/06

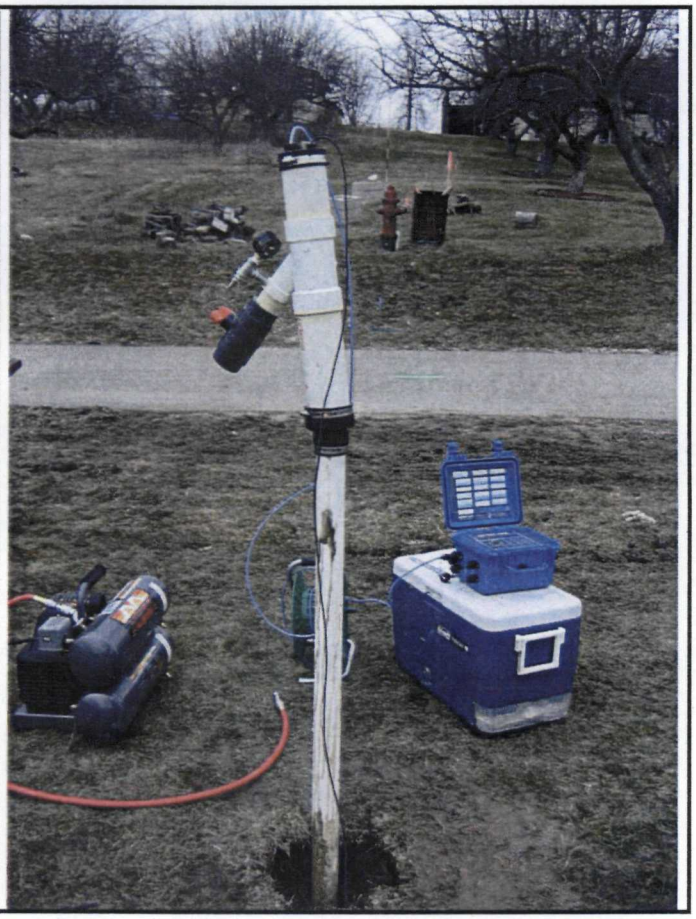
Description

Well development at MW02.

Photo No.	Date
10	3/23/06

Description

Pneumatic slug testing of wells.



5

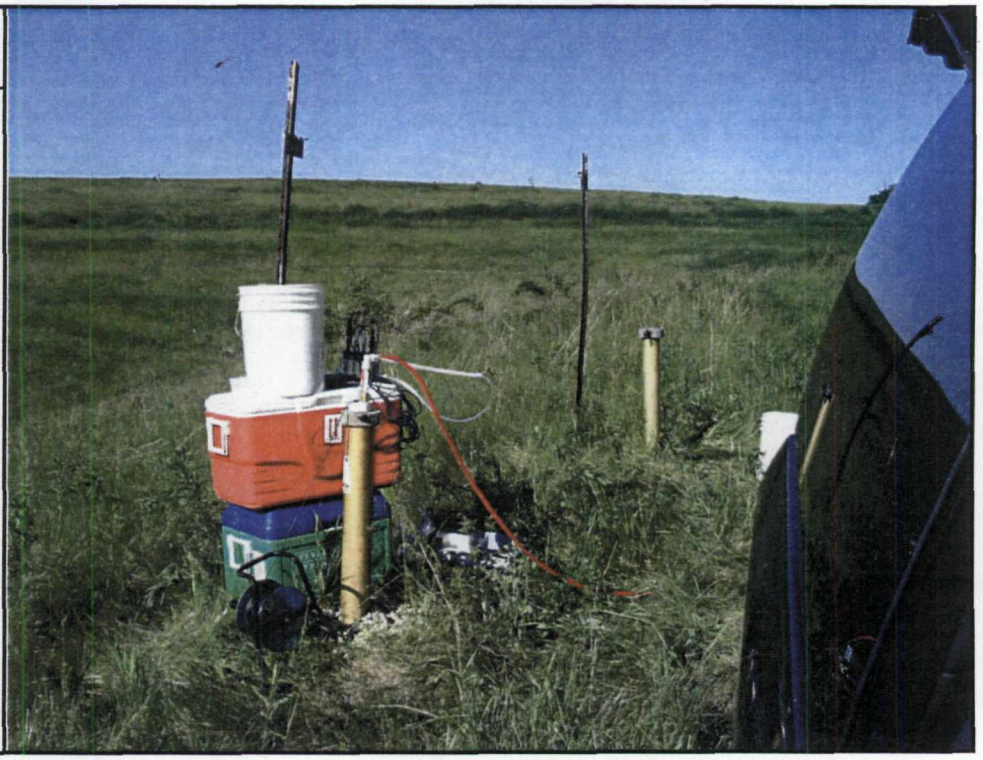
Photographic Log

Client Name	Project No.
Muskego Site Remediation Group	7133.02 Task 4

Photo No.	Date
11	5/31/06

Description

Well sampling.



Appendix N
Additional Well Logs

Table of Contents

- Singh Boring Logs and Well Details
- Miscellaneous Wells
- Edgewood Avenue Wells
- Industrial Avenue Wells

Singh Boring Logs and Well Details

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 1 of 6

SAMPLE							SOIL PROPERTIES				
RECOVERY (inches)		MOISTURE			VISUAL CLASSIFICATION AND REMARKS	qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
No	Type	N	Depth							
				2.5	GRASS AND TOPSOIL - 1 to 2 feet SILTY CLAY (CL) - brown to gray, moist, trace gravel, trace sand					
				5						
				7.5						
				10						
				12.5						
				15						
				17.5						
				20						
				22.5						

WATER LEVEL OBSERVATIONS

While Drilling ~15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 2 of 6

SAMPLE							SOIL PROPERTIES				
RECOVERY (inches) No	Type	MOISTURE	N	Depth	VISUAL CLASSIFICATION AND REMARKS		qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
				25	SILTY CLAY (CL) - brown to gray, moist, trace gravel, trace sand						
				27.5							
				30							
				32.5							
				35							
				37.5							
				40		38.5'					
				42.5	CLAYEY GRAVEL (GC) - gray, saturated, trace sand						
				45		43.5'					
					SILTY CLAY (CL) - g ray, moist, trace gravel						

WATER LEVEL OBSERVATIONS

While Drilling - 15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 3 of 6

SAMPLE RECOVERY (inches) No	Type	MOISTURE	N	Depth	VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
				47.5	SILTY CLAY (CL) - g ray, moist, trace gravel					
					47.5'					
	SS 18	M	36	50	CLAYEY GRAVEL (GC) - dense, gray, moist	2.5				
					48.5'					
					SILTY CLAY (CL) - very stiff, gray, moist, trace gravel					
				52.5						
				55						
				57.5						
				60						
				62.5						
				65						
				67.5						
					67.5'					

WATER LEVEL OBSERVATIONS

While Drilling – 15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 4 of 6

SAMPLE						VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES				
RECOVERY (inches)			MOISTURE				qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
No	Type			N	Depth						
	SS	18	M	47	70	SAND (SP) - dense, gray, saturated, poorly graded, coase grained	4.25				
						69' SILTY CLAY (CL) - gray, hard, moist, trace gravel					
					72.5						
					75						
					77.5						
						78.5' SAND (SP) - dense, gray, saturated, poorly graded					
	SS	18	S	37	80	79.5' SILTY CLAY (CL) - hard, gray, moist, trace gravel	4				
					82.5						
						83' ROCK					
					85	85'					
						GRAVELLY SAND (SG) -0 dense, gray, saturated, trace clay					
					87.5	87' SILTY CLAY (CL) - very stiff, gray, moist, trace gravel					
	SS	18	M	45	90		3.5				

WATER LEVEL OBSERVATIONS

While Drilling ~ 15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 5 of 6

SAMPLE							SOIL PROPERTIES				
RECOVERY (inches)			MOISTURE			VISUAL CLASSIFICATION AND REMARKS	qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
No	Type			N	Depth						
					92.5	SILTY CLAY (CL) - very stiff, gray, moist, trace gravel					
	SS	12	M	62	95		1.5				
	SS	18	M	60	97.5		2				
	SS	18	S	60	100	99' CLAYEY SAND (SC) - very dense, gray, saturated, trace gravel					
					102.5						
	SS	18	S	63	105						
					107.5						
	SS	18	S	75	110						
					112.5	112' SANDY GRAVEL (SG) - med. dense, gray, saturated					

WATER LEVEL OBSERVATIONS

While Drilling - 15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Moeller Property
Location W208 S8543 Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Moeller PZ
Surface Elevation 800.21
Project No 4367
Sheet 6 of 6

SAMPLE							SOIL PROPERTIES				
RECOVERY (inches)			MOISTURE			VISUAL CLASSIFICATION AND REMARKS	qu (tsf)	W (%)	LL (%)	PL (%)	P.P. sieve 200
No	Type			N	Depth						
	SS	12	S	24	115	SANDY GRAVEL (SG) - medium dense, gray, saturated, trace clay					
	SS	18	S	20	117.5	116.5' End of Borehole at 116.5 feet. Borehole converted into Piezometer in accordance with NR 141.					

WATER LEVEL OBSERVATIONS

While Drilling - 15 feet
Depth to Water

GENERAL NOTES

Start 9/12/02 Complete 9/13/02
Crew Chief Mike McArdle Rig Mobile B50
Drilling Method Rotary, ASTM D1452 & D1586

K. SINGH & ASSOCIATES, INC.

State of Wisconsin Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management: ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTIC

Form 4400-113A Rev 7-98

Facility/Project Name: #4367

Facility License, Permit or Monitoring No.:

Facility ID:

Type of Well: Well Code P2 /

Distance from Waste/Source: ft. Enf. Stds. Apply ☐

Local Grid Location of Well: ft. ☐N ☐S ft. ☐E ☐W

Local Grid Origin ☐ (estimated ☐) or Well Location ☐

Lat. ' " Long ' " or

St. Plane ft. N. ft. E. S/C/N

Section Location of Waste/Source: ☐E ☐W

1/4 of 1/4 of Sec. T. N. R.

Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known

Gov. Lot Number:

Well Name: Mosher P2

Wis. Unique Well No.: PG159

DNR Well ID No.:

Date Well Installed: 09/13/2002 (m m d d y y y y)

Well Installed By: Name (first, last) and Fir: Mike McArdle

M+K Environmental Drilling LL

A. Protective pipe, top elevation ft. MSL

B. Well casing, top elevation ft. MSL

C. Land surface elevation ft. MSL

D. Surface seal, bottom ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ OC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☒ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top ft. MSL or 1012.0 ft.

F. Fine sand, top ft. MSL or 1094.0 ft.

G. Filter pack, top ft. MSL or 1096.0 ft.

H. Screen joint, top ft. MSL or 1098.0 ft.

I. Well bottom ft. MSL or 1113.0 ft.

J. Filter pack, bottom ft. MSL or 1113.5 ft.

K. Borehole, bottom ft. MSL or 1113.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.00 in.

N. I.D. well casing 2.38 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 0
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: watertight cap

3. Surface seal: Bentonite ☒ 3
Concrete ☐ 0
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 3
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3
b. Lbs/gal mud weight ... Bentonite-sand slurry ☐ 3
c. Lbs/gal mud weight ..... Bentonite slurry ☐ 3
d. % Bentonite ..... Bentonite-cement grout ☐ 5
e. Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0
Tremie pumped ☐ 0
Gravity ☒ 0

6. Bentonite seal: a. Bentonite granules ☐ 3
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 3
c. Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #40 160
b. Volume added ft³

8. Filter pack material: Manufacturer, product name & mesh siz
a. Red Flint #30
b. Volume added ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 2
Flush threaded PVC schedule 80 ☐ 2
Other ☐

10. Screen material: PVC Schedule 40
a. Screen type: Factory cut ☒ 1
Continuous slot ☐ 0
Other ☐
b. Manufacturer John Sc. Screen
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 1
Red Flint #30 Other ☒

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Kirk P. Kurk Firm: K. Singh & Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment [x] Other ☐ _____

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
StageCoach Inn Piezometer - #4367		B-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: John Last Name: Firm: Michael Hartman Drilling Co.	31 / 07 / 2001 (mm dd yyyy)	31 / 07 / 2001 (mm dd yyyy)	rotary (air or mud)

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		Piezometer	____ Feet MSL	____ Feet MSL	6 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane _____ N, _____ E
NW 1/4 of SE 1/4 of Section 18, T 5 N, R 20 E
Lat ° ' "
Long ° ' "
Local Grid Location
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	WAUKESHA	68	Muskego

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
AS			10	Silty Clay - brown, moist, trace fine sand	CL			ND						
AS			20		CL									
AS			30	Sandy Clay - grey, moist, fine sand, trace small diameter gravel	CL			ND						
AS			40		CL			ND						
AS			50	Silty Clay - grey, moist, traace fine sand Saturated sand seam noted @ 54 feet	CL			ND						
AS			60	Clayey Gravel - grey, saturated, medium diameter gravel.	GC									
AS			70	Silty Clay - grey, moist, trace sand	CL									Note: Started using water with the rotary drill @ 64 feet
AS			80	Gravelly Sand - well graded, saturated, small to medium diameter gravel.	SP									
AS			90	Sandy Clay - grey, wet, fine to medium grained sand	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name: StageCoach Inn Piezometer - #4367 License/Project/Monitoring No.: Page 2 of 2
Boring No.: B-1 WI Unique Well No.:

Sample Number and Type	Sample Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
AS			100	Clayey Sand - grey, saturated, fine sand	SC									
AS			110	Gravelly Sand - saturated, well graded, small to medium diameter gravel, trace silt	SP									
AS			120		SP									
AS			130	End of boring @ 130 feet	SP									

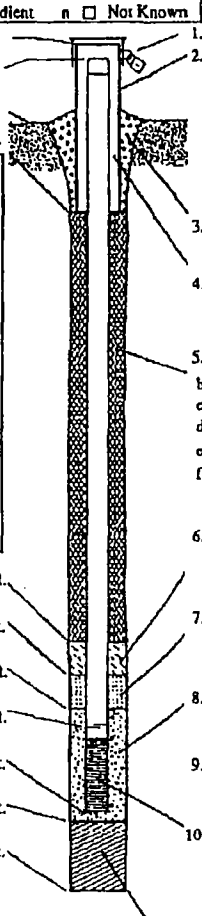
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: StageCoach Inn Piezometer	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: StageCoach
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: SC001 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 3/1/07 (m m d d y y y y): 12001
Type of Well: Well Code 12 / pz	Section Location of Waste/Source: NW 1/4 of SE 1/4 of Sec. 18, T. 5 N, R. 20 ☒E ☐W	Well Installed By: Name (first, last) and Firm: John Michael Hartman Drilling Co.
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:



A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☒ Yes ☐ No

14. Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
_____ Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☒ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.
F. Fine sand, top _____ ft. MSL or _110_ ft.
G. Filter pack, top _____ ft. MSL or _110_ ft.
H. Screen joint, top _____ ft. MSL or _110_ ft.
I. Well bottom _____ ft. MSL or _113_ ft.
J. Filter pack, bottom _____ ft. MSL or _113_ ft.
K. Borehole, bottom _____ ft. MSL or _130_ ft.
L. Borehole, diameter _6.4_ in.
M. O.D. well casing _6.4_ in.
N. I.D. well casing _6_ in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: _____ Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: _____ Bentonite ☒ 30 Concrete ☐ 01 Other ☐
4. Material between well casing and protective pipe:
none Bentonite ☐ 30 Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. none- steel casing driven while ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. none
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. gravelly sand - native
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☐ 24
welded 6 " diameter steel casi Other ☒
10. Screen material: Stainless Steel
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer US Filter Johnson Screen
c. Slot size: 0.018 in.
d. Slotted length: ___ ft.
11. Backfill material (below filter pack): None ☒ 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
Scott Miller	K. Singh + Associates

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

PL 008573

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer-MW
Surface Elevation 810.55
Project No 4367
Sheet 1 of 2

SAMPLE							SOIL PROPERTIES				
RECOVERY		MOISTURE				VISUAL CLASSIFICATION AND REMARKS	HNU	BENZENE	GRO	DRO	LEAD
No	Type			N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
					2.5	Blind drilling up to 20' below grade.					
					5						
					10						
					12.5						
					15						
					17.5						
					20						
						20'					
1	SS	18/18	s	4/8/11	22.5	SILTY CLAY (CL) - stiff to very stiff, grey, saturated.					
						22.5'					
2	SS	18/18		6/14/10	25	SILTY CLAY (CL) - very stiff, grey, saturated.					

WATER LEVEL OBSERVATIONS

While Drilling - 20 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/19/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - MW
Surface Elevation 810.55
Project No 4367
Sheet 2 of 2

SAMPLE						VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES				
RECOVERY		MOISTURE					HNU	BENZENE	GRO	DRO	LEAD
No	Type			N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
3	SS	18/18	S	4/16/15	27.5	SILTY CLAY (CL) - very stiff, grey, saturated.					
					30	---------- 28' End of boring @ 28' below grade.					

WATER LEVEL OBSERVATIONS

While Drilling - 20 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/19/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

State of Wisconsin Department of Natural Resources — Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Dyer's Property	Local Grid Location of Well: ___ ft. ☐N ☐S ___ ft. ☐E ☐W	Well Name: Dyer-MW
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___ Long. ___ or	Wis. Unique Well No.: PD139 / DNR Well ID No.
Facility ID	St. Plane ___ ft. N. ___ ft. E. S/C/N	Date Well Installed: 09/19/2002 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. ___ T. ___ N, R. ___ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Mike M+K Environmental
Distance from Waste/Source ___ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: a ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 3.0 ft.

12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ■ CH ☐ Bedrock ☐

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ■ 50 / Hollow Stem Auger ☐ 41 / Other ☐

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ■ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ■ No

Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or 14 ft.

F. Fine sand, top _____ ft. MSL or 14 ft.

G. Filter pack, top _____ ft. MSL or 16 ft.

H. Screen joint, top _____ ft. MSL or 18 ft.

I. Well bottom _____ ft. MSL or 28 ft.

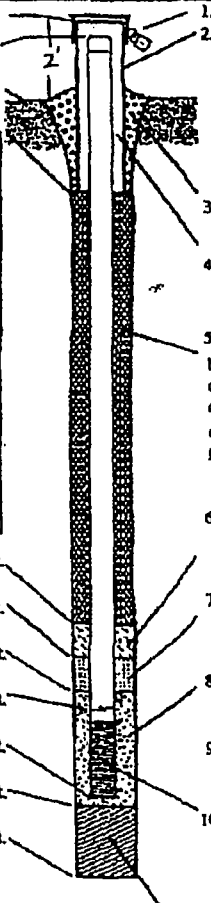
J. Filter pack, bottom _____ ft. MSL or 28 ft.

K. Borehole, bottom _____ ft. MSL or 28 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
   a. Inside diameter: 4 in.
   b. Length: 5 ft.
   c. Material: Steel ■ 04 / Other ☐ _____
   d. Additional protection? ☐ Yes ☐ No
   If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ■ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ■ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ■ 33
   b. _____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
   c. _____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
   d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
   e. _____ Ft³ volume added for any of the above
   f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ■ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
   b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
   c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
   a. Flint Silica #40-60
   b. Volume added ½ bags ft³

8. Filter pack material: Manufacturer, product name & mesh size
   a. Flint Sand #30
   b. Volume added 2 bags ft³

9. Well casing: Flush threaded PVC schedule 40 ■ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
   a. Screen type: Factory cut ■ 11 / Continuous slot ☐ 01 / Other ☐ _____
   b. Manufacturer Johnson Products
   c. Slot size: 0.01 in
   d. Slotted length: 5 ft

11. Backfill material (below filter pack): None ■ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Mukesh Kumar Jain — Firm: K. Singh & Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - PZ
Surface Elevation 810.60
Project No 4367
Sheet 1 of 5

SAMPLE						VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES				
RECOVERY		MOISTURE					HNU	BENZENE	GRO	DRO	LEAD
No	Type			N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
					2.5	Blind drilling up to 27.5' below grade.					
					5						
					10						
					12.5						
					15						
					17.5						
					20						
					22.5						
					25						

WATER LEVEL OBSERVATIONS

While Drilling - 27.5 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/20/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - PZ
Surface Elevation 810.60
Project No 4367
Sheet 2 of 5

SAMPLE							SOIL PROPERTIES				
RECOVERY			MOISTURE			VISUAL CLASSIFICATION AND REMARKS	HNU	BENZENE	GRO	DRO	LEAD
No	Type	↓	↓	N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
					27.5	Blind drilling up to 27.5' below grade.					
						27.5'					
1	SS	18/18	s	6/12/17	30	SILTY CLAY (CL) - very stiff, grey, saturated.					
2	SS	18/18	s	7/14/14	32.5						
3	SS	18/18	s	5/8/12	35						
4	SS	18/18	s	9/6/15	37.5						
5	SS	18/18	s	6/9/10	40						
6	SS	18/18	s	6/10/14	42.5						
						43'					
7	SS	18/18	s	8/16/10	45	SILT (ML) - very stiff, grey, saturated.					
						46'					
8	SS	18/18	s	8/9/10	47.5	SILTY CLAY (CL) - very stiff, grey, saturated.					

WATER LEVEL OBSERVATIONS

While Drilling - 27.5 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/20/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - PZ
Surface Elevation 810.60
Project No 4367
Sheet 3 of 5

SAMPLE							SOIL PROPERTIES				
RECOVERY		MOISTURE				VISUAL CLASSIFICATION AND REMARKS	HNU	BENZENE	GRO	DRO	LEAD
No	Type			N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
9	SS	18/18	S	11/13/18	50	SILTY CLAY (CL) - very stiff, grey, saturated.					
					52.5						
10	SS	18/18	S	6/9/10	55						
					57.5						
11	SS	18/18	S	6/7/10	60						
					62.5						
12	SS	18/18	S	10/18/10	65						
					67.5						
13	SS	18/18	S	8/18/42	92.5	68.5' SILTY CLAY (CL) - hard, grey, saturated.					

WATER LEVEL OBSERVATIONS

While Drilling ~ 27.5 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/20/02
Crew Chief Mike McArdle. Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - PZ
Surface Elevation 810.60
Project No 4367
Sheet 4 of 5

SAMPLE						VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES				
RECOVERY		MOISTURE					HNU	BENZENE	GRO	DRO	LEAD
No	Type			N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
					72.5	SILTY CLAY (CL) - hard, grey, saturated.					
					75						
					77.5						
14	SS	18/18	s	13/17/18	80						
					82.5						
					85						
					87.5						
15	SS	18/18	s	8/10/10	90	88.5' SILTY CLAY (CL) - very stiff, grey, saturated.					
					92.5						

WATER LEVEL OBSERVATIONS

While Drilling - 27.5 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/20/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

LOG OF TEST BORING

Project Dyer Property
Location Hillendale Drive, Muskego, WI
Soil Testing Firm M & K Environmental, Howards Grove, WI

Boring No. Dyer - PZ
Surface Elevation 810.60
Project No 4367
Sheet 5 of 5

SAMPLE						VISUAL CLASSIFICATION AND REMARKS	SOIL PROPERTIES				
RECOVERY		MOISTURE					HNU	BENZENE	GRO	DRO	LEAD
No	Type	↓	↓	N	Depth		(ppm)	(ppb)	(ppm)	(ppm)	(ppm)
					95	SILTY CLAY (CL) - very stiff, grey, saturated.					
					97.5						
16	SS	18/18	s	8/9/10	100						
					102.5						
17	SS	18/18	s	21/23/24	105	---------- 103.5' SILTY CLAY (CL) - very stiff, grey, saturated with seem of gravel.					
					107.5	---------- 105' GRAVEL (GW) - tan, saturated.					
18	SS	18/18	s	50/34/54	110	---------- 110'					
						End of boring @ 110' below grade.					

WATER LEVEL OBSERVATIONS

While Drilling - 27.5 feet
Depth to Water

GENERAL NOTES

Start 9/19/02 Complete 9/20/02
Crew Chief Mike McArdle Rig
Drilling Method Mudd Rotary, ASTM D1452 and D1586

K. SINGH & ASSOCIATES, INC.

State of Wisconsin Department of Natural Resources — Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Dyer's Property	Local Grid Location of Well: _____ ft. ☐N ☐S, _____ ft. ☐E ☐W	Well Name: Dyer - PZ
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. _____ Long. _____ or	Wis. Unique Well No.: PG 126 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09/20/2002 (m m / d d / y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ¼ of ____ ¼ of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Mike / M+K Environment
Distance from Waste/Source _____ ft.	Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
		Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 3.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ■ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ■ No

14. Drilling method used: Rotary ■ 50
Hollow Stem Auger ☐ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ■ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ■ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 16 ft.

F. Fine sand, top _____ ft. MSL or 101 ft.

G. Filter pack, top _____ ft. MSL or 103 ft.

H. Screen joint, top _____ ft. MSL or 105 ft.

I. Well bottom _____ ft. MSL or 110 ft.

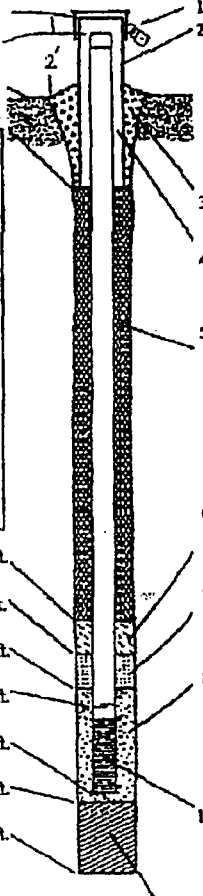
J. Filter pack, bottom _____ ft. MSL or 110 ft.

K. Borehole, bottom _____ ft. MSL or 110 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.09 in.



1. Cap and lock? ■ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 5 ft.
c. Material: Steel ■ 04 / Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ■ 01 / Other ☐

4. Material between well casing and protective pipe: Bentonite ■ 30 / Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ■ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ■ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ■ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Flint Silica #40-60
b. Volume added ½ bags ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Flint Sand #30
b. Volume added 3.998 ft^3

9. Well casing: Flush threaded PVC schedule 40 ■ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ■ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Johnson Products
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None ■ 14 / Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Mukesh Kumar Jain | Firm: K. Singh & Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [x] Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Moose Lodge Piezometer - #4367		MooseLodge Well

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: John Last Name: Firm: Michael Hartman Drilling Co.	3/15/01 m m d d y y y y	3/15/01 m m d d y y y y	rotary (air or mud)

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	Piezometer	_____ Feet MSL	_____ Feet MSL	6 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane _____ N, _____ E
NW 1/4 of SE 1/4 of Section 18, T 5 N, R 20 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N _____ Feet ☐ E ☐ S ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	WAUKESHA	68	Muskego

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
AS			10	Silty Clay - red to brown, moist, trace to little gravel, trace to little sand	CL			BK						
AS			20		CL			BK						
AS			30	Gravel - multi-colored, very moist, some sand	GP			BK						Gravel seam from 27 - 29 ft.
AS			40	Sand - brown, moist, poorly graded, medium grained sand, trace to little gravel	SP			BK						
AS			50	Sand - grey, saturated, poorly graded, trace to little gravel	SP			BK						Saturated @ 43 ft.
AS			60		SP									
AS			70		SP									
AS			80	Sandy Clay - grey, wet, some sand and gravel	CL									Sandy clay from 86 - 87 ft.
AS			90	Gravel - grey, saturated, well graded, trace sand	GW									
			100	End of Boring @ 95 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Scott Miller Firm: K Singh + Associates, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management: ☐
Remediation/Redevelopment: ☐ Other [X]

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev 7-98

Facility/Project Name: Moose Lodge Piezometer - #4367

Facility License, Permit or Monitoring No.:

Facility ID: 0

Type of Well — Well Code: 12 / pz

Distance from Waste/Source: 0 ft. | Enf. Stds. Apply ☐

Local Grid Location of Well: 0 ft. ☐ N. ☐ S. — 0 ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location [X]
Lat. 42 ° 53 ' 17 " Long. 88 ° 11 ' 7 " or

St. Plane 0 ft. N. 0 ft. E. S/C/N

Section Location of Waste/Source
NW 1/4 of SE 1/4 of Sec. 18 T. 5 N. R. 20 [X] E ☐ W

Location of Well Relative to Waste/Source
a ☐ Upgradient s ☐ Sidegradient
d [X] Downgradient n ☐ Not Known

Gov. Lot Number: 0

Well Name: Moose Lodge

Wis. Unique Well No.: ML001 DNR Well ID No.:

Date Well Installed: 03 / 15 / 2001 (m m d d y y y y)

Well Installed By: Name (first, last) and Firm
John
Michael Hartman Drilling Co.

A. Protective pipe, top elevation 0 ft. MSL
B. Well casing, top elevation 0 ft. MSL
C. Land surface elevation 0 ft. MSL
D. Surface seal, bottom 0 ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP [X] GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? [X] Yes ☐ No

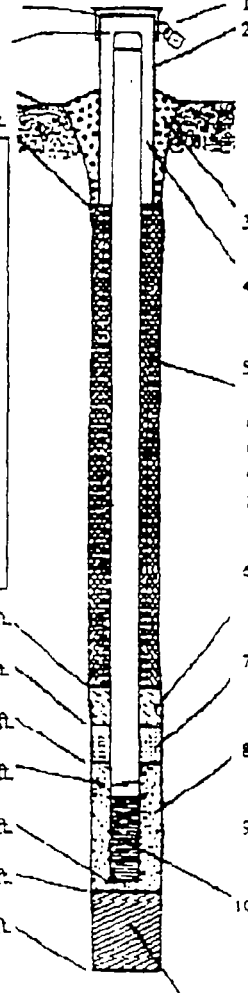
14. Drilling method used: Rotary [X] 50
Hollow Stem Auger ☐ 41
Other ☐ 99

15. Drilling fluid used: Water ☐ 02 Air [X] 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 0 ft. MSL or 84 ft.
F. Fine sand, top 0 ft. MSL or 86 ft.
G. Filter pack, top 0 ft. MSL or 88 ft.
H. Screen joint, top 0 ft. MSL or 90 ft.
I. Well bottom 0 ft. MSL or 95 ft.
J. Filter pack, bottom 0 ft. MSL or 95 ft.
K. Borehole, bottom 0 ft. MSL or 95 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2 in.



1. Cap and lock? [X] Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 6 in.
b. Length: 90 ft.
c. Material: Steel [X] 04 Other ☐
d. Additional protection? [X] Yes ☐ No
If yes, describe: watertight cap
3. Surface seal: Bentonite [X] 30 Concrete ☐ 01 Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30
bentonite slurry Other [X]
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. 0 Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 0 Lbs/gal mud weight . . . . . Bentonite slurry [X] 31
d. 0 % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 16.3 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped [X] 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 32
c. Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Wedron, Washed Silica Sand
b. Volume added 0.39 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint, Filter Sand, #30
b. Volume added 1.37 ft^3
9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC schedule 40
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Campbell
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None [X] 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Scott D Muller Firm: N. Singh & Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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Miscellaneous Wells

County Park Well
Pic Workshop

COPK 1

Box 56 No.

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

WK-292-U

1. County Waukesha (Town ☒ / Village ☐ / City ☐) Muskego — Check one and give name

2. Location SW¼ OF SW¼ OF NW¼ - Sec. 17 - T5N-R20E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Waukesha County Park System
Name of individual, partnership or firm

4. Mail Address Waukesha, Wisc (Misc. #33 well #1 Perm well # 88032)
Complete address required

5. From well to nearest: Building 35 ft; sewer 40 ft; drain 35 ft; septic tank 70 ft.
dry well or filter bed 85 ft; abandoned well ____ ft. Muskego Park

6. Well is intended to supply water for: Work Shops

RECEIVED SEP 20 1960 SANITARY ENGINEERING

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
6	20	80			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	Standard Wt Black Steel Pipe	0	80

9. GROUT:

Kind	From (ft.)	To (ft.)
Red Clay Slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Red clay	0	35
Silt sand	35	40
Grey clay	40	60
Sand (waterbearing)	60	62
Grey mud	62	70
Coarse sand	70	80
(waterbearing)		

Construction of the well was completed on: Sept - 1 - 19 60

The well is terminated 14 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 25 GPM.

Depth from surface to water-level: 9 ft.

Water-level when pumping: 12 ft.

Water sample was sent to the state laboratory at: Madison (City) on Sept-8 1960

Signature Andrew Egofske — Registered Well Driller

RI - Box 112 - Waukesha, Wis — Complete Mail Address

Please do not write in space below

Rec'd SEP 9 1960 No 35184

Ans'd ____

Interpretation UNSAFE

Because of the presence of B. Coli in one of the 10 cc. portions of this sample another examination is advisable.

cc: Wauk. Plan. Comm. 10-12-66

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	____	____	____	____	____
48 hrs.	____	____	____	____	____
Confirm	____	____	____	____	____ 31
B. Coli	+	0	0	0	0 plot

Examiner ____ 635563

County Park Well
Picnic Area #3

COPK 2

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

JUL 24 1974

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

COUNTY: Waukesha
CHECK ONE: ☐ Town ☐ Village ☑ City
NAME: City of Muskego

LOCATION: ✓ S½ | ¼ Section: N.W. | Section: 17 | Township: T.5N | Range: R.20E.
R. – Grid or street no.
Street name: W. Janesville rd
ND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Waukesha County Park System
ADDRESS: S-83 W2c370 - W. Janesville rd
POST OFFICE: Muskego, Wis

Distance in feet from well to nearest: (Record answer in appropriate block)	BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			60'						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Picnic Area #3

DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	50			
6	50	190			

CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Black steel	Surface	185
Pipe	New, T&C		
10	Black steel	SURFACE	50
Pipe	new, welded		
Joints	.365 wall thickness		

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
17-bags clear cement	Surface	50
85 gal of clear water		

MISCELLANEOUS DATA
Yield test: 24 Hrs. at 12 GPM
Depth from surface to normal water level 22 ft.
Depth to water level when pumping 74 ft.

8. FORMATIONS

Kind	From (ft.)	To (ft.)
Red clay	Surface	25
Grey clay	25	58
Silt sand (water-bearing)	58	82
Grey clay stone	82	96
Silt sand (water-bearing)	96	102
Hardgan - stones	102	140

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 7 – 22 – 1974
Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to A Stat laboratory on: 7 – 23 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Andrew Egofske, Registered Well Driller
COMPLETE MAIL ADDRESS: 5300 S. Egofske rd, New Berlin, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

WGNHS ORIGINAL SEE OTHER SIDE

32

T5N R20E JUL 29 1974

WELL CONSTRUCTOR'S REPORT

3300-15

SEC 17

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

COUNTY: Waukesha | CHECK ONE: ☐ Town ☐ Village ☒ City | NAME: Muskego

LOCATION – ¼ Section: S½ NW. | Section: 17 | Township: 5N | Range: 20E

R – Grid or street no. | Street name

NO – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Waukesha County Park System

ADDRESS: S-83-W20370-W-Janesville Rd

POST OFFICE: Muskego, Wis

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE

LEAD WATER DRAIN C. I.	LEAD WATER DRAIN TILE	SEPTIC TANK	PUMP	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Picnic Area #3

DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
	Surface				

CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
		Surface	
	Slot #18 Johnson S. S. well screen 6' long		
5 5/8"	OD – closed bottom self rubber Packer	Top 184	190

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Fine sand (water-bearing)	Surface	140
Hardpan & some sand	140	142
some small stones	142	184
Coarse sand (waterbearing)	184	190

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 7 – 22 – 19 74

Well is terminated 12 inches ☐ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

MISCELLANEOUS DATA

Yield test: Hrs. at 12 GPM

Depth from surface to normal water level 22 ft.

Depth to water level when pumping 74 ft.

Water sample sent to State laboratory on: 7 – 23 – 19 74

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, size of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Andrew Egofske
Registered Well Driller

COMPLETE MAIL ADDRESS: 5300-S-Egofske rd New Berlin, Wis

Please do not write in space below

UNIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

3-71

35

County Park Well 1 of 2
Shelter Bldg
WK-293-U Wel 6 Box 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☑ Village ☐ City ☐ Muskego (Check one and give name)

2. Location SW 1/4 of NE 1/4 of NW 1/4 - SEC. 17 - T. 5N - R. 20E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☐ or Agent ☐ Waukesha County Park System — Muskego Park well Shelter Bldg
Name of individual, partnership or firm

4. Mail Address Waukesha Co. Courthouse
Complete address required

RECEIVED
APR 19 1961
SANITARY ENGINEERING

5. From well to nearest: Building 17 ft; sewer 55 ft; drain ____ ft; septic tank 100 ft; dry well or filter bed 120 ft; abandoned well ____ ft.

6. Well is intended to supply water for: Public & Park Services

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
6	20	345			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard Wt	0	310
	Black Steel		
	Pipe		

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay Slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Red clay sticky	0	47
Silty sand - gravel (water bearing)	47	310
Dolomitic sand stone	310	330
Pink - granite	330	340
Grey limestone dense - (waterbearing)	340	345

(revised)

Construction of the well was completed on: April - 8 - 1961

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 35 GPM.

Depth from surface to water-level: 40 ft.

Water-level when pumping: 60 ft.

Water sample was sent to the state laboratory at: Madison (City) on April - 11 - 1961

Signature Andrew Egofske — Registered Well Driller
R3 - Box 112 - Waukesha, Wisc — Complete Mail Address

Please do not write in space below

Rec'd APR 12 1961 No. 11115

Ans'd ____

Interpretation ____

SAFE—BACTERIOLOGICALLY

cc: Wauk. Plan. Comm. 10-12-66

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0	0	0	0	0

34

Examiner ____

plot 683562

INSTRUCTIONS

ALL INFORMATION INDICATED ON THE FACE OF THIS FORM MUST BE GIVEN

PLEASE BE GUIDED BY THE FOLLOWING:

Numbers below correspond to numbers of items of the form on the opposite side.

1. Name of the County and the name of the Town, Village or City. Indicate which is given.
2. If Rural: Number and the ¼ of the Section, the number of the Town North, and the number of the Range East or West.
   If Urban: Name of the Street and the number of the Premise.
3. Name of the Owner. If the name of the owner cannot be given, give instead the name of the Agent. Indicate which is given.
4. Name of the Street and the number of the Premise or the number of the Mail Route, the name of the Post Office and the name of the State.
5. Distance, in feet, from the well to the nearest building and to each source of pollution shown.
6. Indicate: Home, farm, school, tavern, creamery, community, industry, etc.
7. Show the diameter and depth of the initial drillhole or excavation and each reduction in size to bottom. If well was reconstructed, show diameter and depth of original well on first line.
8. Show diameter and kind of casing pipe, liner pipe or curbing and actual position in the well, measured from the surface.
9. Show kind of material (mud or cement) used in sealing the annular space, from and to what depths from the surface. If neither was used indicate "none".
10. Show thickness of each formation and the total depth at the base thereof.
11. Provide the data indicated.

Note: The Well Construction Report (Well Log) may be forwarded with the water sample from a newly constructed or reconstructed well, instead of the report requested by the State Laboratory of Hygiene, on the form which accompanies the sample bottle.

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., may be given here:

On wells where 4" larger than permanent Casing is required - we use 8" inside Dia Casing - with a 8" drive which actually measures 9½" O.D. when we put this 20" of 8" Casing down & pull it out I ~~would~~ believe that this annular space measurers 10" diameter whereas I report mostly 8" annular openings

If more space is needed another sheet may be attached.

County Park Well
Beach Well

SW, NW, NW, Sec 17

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — WK-294-u Same as 1274-u — Wel 6

SW, NW, NW, Sec. 17 per USGS

1. COUNTY: Waukesha — CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Muskego

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.): T 5 N R 20 E N W ¼ Sec. 17

3. OWNER AT TIME OF DRILLING: Waukesha Park & Planning Commission

4. OWNER'S COMPLETE MAIL ADDRESS: Courthouse Waukesha Wisc.

RECEIVED AUG 10 1966 SANITARY ENGINEERING

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
—								

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		—		—					Perm Well # 88034

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.): Well # 3, Misc # 33

6. Well is intended to supply water for: Muskego Park — Beach well

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10"	Surface	30			
6"	30	189			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
10"	Standard Steel	Surface	30
6	Standard Steel	0	182
Johnson well Screen		182	189

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	30

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay & Sand	Surface	20
Sand & gravel	20	30
Gray Clay	30	40
Hard Pan	40	90
Gray sand & gravel	90	105
Hard pan	105	157
Brown sand & gravel	157	189

Well construction completed on July 28 1966

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 12 Hrs. at 44 GPM

Depth from surface to normal water level 35 ft.

Depth to water level when pumping 110 ft.

Water sample sent to Madison laboratory on: Aug 9 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: [signature] Registered Well Driller

COMPLETE MAIL ADDRESS: Portland Wisc. 36

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
cc: Wauk. Plan. Comm. 10-12-66		cc: M.E. Ostrom 8/10/66		plot 683561

Dyer Barn

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DM 837

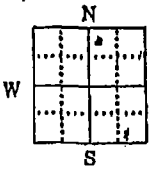
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

JUL 6 1990

Property Owner: Art Dyer / Protel Cont. Telephone Number: 544-5354
Mailing Address: W208S8903 Hillendale Dr. DYER BARN Well
City: Muskego State: WI. Zip Code: 53150
County of Well Location: Waukesha 68 County Well Location Permit No. W Well Completion Date: 06/19/90 (MM DD YY)

Well Constructor (Business Name): Stenerson Well Drilling Registration #: 368
Address: 225 Jackson St.
City: Beaver Dam, State: WI. Zip Code: 53916

2. Mark well location in correct 40-acre parcel of section. N W E S



1. Location (Please type or print using a black pen.)
☐ Town ☒ City ☐ Village Fire # (if available)
of Muskego
Grid or Street Address or Road Name and Number (if available): Hillendale Dr.
Subdivision Name Lot # Block #
Gov't Lot # ___ or NW ¼ of NE ¼ of Section 19 T 5 N R 20 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ___ constructed in 19___.
Reason for new, replaced or reconstructed well? Supply home

4. Well serves 1 # of homes and/or ___ (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ___

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

--	1. Landfill	--	9. Downspout/Yard Hydrant	--	17. Wastewater Sump
28	2. Building Overhang	--	10. Privy	--	18. Paved Animal Barn Pen
55	3. Septic or Holding Tank	--	11. Foundation Drain to Clearwater	--	19. Animal Yard or Shelter
--	4. Sewage Absorption Unit	--	12. Foundation Drain to Sewer	--	20. Silo — Type ___
--	5. Nonconforming Pit	--	13. Building Drain ☐ Cast Iron or Plastic ☐ Other	--	21. Barn Gutter
--	6. Buried Home Heating Oil Tank	20	14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	--	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
--	7. Buried Petroleum Tank	--	15. Collector or Street Sewer	--	23. Other Manure Storage ___ Other NR 112 Waste Source
--	8. Shoreline/Swimming Pool	--	16. Clearwater Sump	--	24. ___

Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
8	surface	106

Method of constructing upper enlarged drillhole only.
☒ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ___ in. dia.
☐ 6. Temp. Outer Casing ___ in. dia. Removed? ☐ Yes ☐ No If no, explain ___
☐ 7. Other ___

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
	Clay	surface	106
	Gravel	106	

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New 18.97 lb. steel	surface	106
	A-53 Gr. B PE Sumotomo		
	Metals w/shoe		
Dia. (in.)	screen type and material	From	To

10. Static Water Level
___ ft. above ground level
3 ft. below ground surface

11. Pump Test
Pumping Level 8 ft. below surface
Pumping at 20 GPM for 2 hours

12. Well Is: 12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

8. Grout or Other Sealing Material
Method ___

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
lling mud/cutting	surface	106	

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☒ Yes ☐ No If no, explain ___

14. Signature of Point Driver or Registered Driller: Karl Stenerson KS Date Signed: 7-1-90
Signature of Drill Rig Operator Date Signed

Make additional comments on reverse side about geology, etc.

WELL CONSTRUCTION REPORT

37

Dyer House

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

1. COUNTY: Waukesha
CHECK (✓) ONE: ☐ Town ☐ Village ☒ City
Name: Muskego

2. LOCATION: ¼ Section or Gov't. Lot: NE, SW, NE | Section: 19 | Township: 5-N | Range: 20-E
OR – Grid of Street No.: W208 S8903 | Street or Road Name: Hillendale Rd
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Ed Ross As of 4/3/84 ART DYER House Well
ADDRESS: W208 S8903 Hillendale Rd.
POST OFFICE: Muskego Wis. ZIP CODE: 53150

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewe	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
15						45 Pvc				

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit:	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit	
				Clearwater Dr.	Clearwater Sump B5				Not in yet		Seepage Bed Not in yet	
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	20			
6	20	123			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification Mfg. & Method of Assembly

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Steel Casing 19.45 # T+C. New Astm A120 HKK	Surface	123

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay Slurry	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	20
Stony Clay	20	28
Clay	28	94
Sand & Gravel	94	97
Sandy Clay	97	115
Hard Pan	115	120
Gravel	120	123
Gravel came up in the pipe 2FT.		

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

Well construction completed on October 19, 1983

11. MISCELLANEOUS DATA
Yield Test: 3 Hrs. at 15 GPM
Depth from surface to normal water level 10 Ft.
Depth of water level when pumping 10 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on October 19, 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature

Business Name and Complete Mailing Address
38

Fischer

15N R20E Sec 18 SW SE SE

AUG 3 1971

WELL CONSTRUCTOR'S REPORT

Wel–8 (SW, SE, SE, Sec 18)

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha — CHECK ONE: ☐ Town ☐ Village ☒ City — NAME: Muskego

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.): W207 S8686 Hillendale Drive

3. OWNER AT TIME OF DRILLING: Larry Fischer

4. OWNER'S COMPLETE MAIL ADDRESS: W207 S8686 Hillendale Drive

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
18'			46'			8'	40'	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
40'		65'		75'	75'				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	250			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Blacksteel pipe new threaded & coupled 19.45 lbs per ft	Surface	250

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
NONE	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Fine sand	Surface	30
grey clay & gravel & pebbles	30	220
Coarse sand (waterbearing)	220	240
Fine gravel (waterbearing)	240	325

11. MISCELLANEOUS DATA

Yield test: 30 Hrs. at 20 GPM

Depth from surface to normal water level: 0 ft.

Depth to water level when pumping: 45 ft.

Water sample sent to State — Laboratory on: Aug 2 19 71

Well construction completed on: July 10 19 71

Well is terminated 20 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

In our opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Andrew Egofske — Registered Well Driller

COMPLETE MAIL ADDRESS: 5310 S. Egofske Rd New Berlin, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
				39

Loppnow

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

JUN 6 1978

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

COUNTY: Waukesha	CHECK (✓) ONE: ☐ Town ☐ Village ☒ City			Name: Muskego	
2. LOCATION: NE, SW	¼ Section: NE	Section: 19	Township: 5-N	Range: 20-E	3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Ed Ross As of 4/3/97 P&F LOPPNOW
OR – Grid or Street No.: W208 S8905	Street Name: Hillendale Rd.				ADDRESS: W208 S8905 Hillendale Rd.
AND – If available subdivision name, lot & block No.					POST OFFICE: Muskego, Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)	Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
	25						35				

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench
							25				Not in yet		Not in yet

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	87			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	Steel Casing 19.45# T&C. New Astm A589 ~~Nichimen~~	Surface	87
	Nichimen		
	Kawasaki		
	See letter in WD File		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill Cuttings	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	83
Gravel	83	87
Gravel came up in The pipe 2 Ft.		

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on May 16, 1978

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 3 Hrs. at 15 GPM

Depth from surface to normal water level 15 Ft.

Depth of water level when pumping 18 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on May 16, 1978

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

40

Signature: David J. Acker Registered Well Driller

Complete Mail Address: 10981 W. Forest Home Ave, Hales Corners, Wis

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER HL 967

SEP 27 1994

Moody

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707 (Please type or print using a black pen.)

Property Owner [redacted] Dennis Moody | Telephone Number ( )

Mailing Address W200 S8906 Woods Rd.

City Muskego | State WI | Zip Code 53150

County of Well Location Waukesha | Co. Well Permit No. W | Well Completion Date (mm-dd-yy) 9-25-94

Well Constructor (Business Name) Ken Sweeney Well & Pump | License # 4124

Address 11221 W. St. Martins Rd.

City Franklin | State WI | Zip Code 53132

2. Mark well location with a dot in correct 40-acre parcel of section. N / W / E / S

1. Well Location — Please use decimals instead of fractions.

☐ Town ☒ City ☐ Village of Muskego | Fire # (If avail.)

Grid or Street Address or Road Name and Number (If avail.) W200 S8906 Woods Rd.

Subdivision Name | Lot # | Block #

Gov't Lot # ____ or SW 1/4 of SW 1/4 of Section 17, T 5 N, R 20 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction

of previous unique well # ____ constructed in 19____

Reason for new, replaced or reconstructed well? new home

4. Well serves 1 # of homes and or ____ (Ex: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? ☐ Yes ☒ No Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well located on highest point of property, consistent with the general layout and surroundings? ☒ Yes ☐ No If no, explain on back side.

Well located in floodplain? ☐ Yes ☒ No

Distance in Feet From Well To Nearest:

1. Landfill	30'	9. Downspout/Yard Hydrant	17. Wastewater Sump
2. Building Overhang	19	10. Privy	18. Paved Animal Barn Pen
3. Septic or Holding Tank (circle one)	17	11. Foundation Drain to Clearwater	19. Animal Yard or Shelter
4. Sewage Absorption Unit	20	12. Foundation Drain to Sewer	20. Silo - Type
5. Nonconforming Pit	141	13. Building Drain ☐ Cast Iron or Plastic ☐ Other	21. Barn Gutter
6. Buried Home Heating Oil Tank		14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
7. Buried Petroleum Tank		15. Collector or Street Sewer	23. Other Manure Storage
8. Shoreline/Swimming Pool	56	16. Clearwater Sump	Other NR 112 Waste Source
			24.

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	265

Method of constructing upper enlarged drillhole only.

☐ 1. Rotary - Mud Circulation
☐ 2. Rotary - Air
☐ 3. Rotary - Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	18.97#/ft ASTM A53B Sawhill -welded	surface	265

Dia. (in.)	screen type, material & slot size	From	To

8. Grout or Other Sealing Material

Method	Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	#8-20 bentonite crumb	surface		
	mound around slot as driven			

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
GS	sandy clay	Surface	44
RC	hardpan/gravel	44	52
SS	blue clay/ mucksand	52 / 143	143 / 154
GC	clay	154	162
SS	mucksand	162	178
GC	stoney clay	178	242
RC	hardpan/gravel	242	262
GS	gravel	262	265

10. Static Water Level ____ ft. above ground surface / 12 ft. below ground surface

11. Pump Test: Pumping Level 60 ft. below surface; Pumping at 40 GPM for 1 hours

12. Well is: 16 in. ☒ Above ☐ Below Grade; Developed? ☒ Yes ☐ No; Disinfected? ☒ Yes ☐ No; Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain ____

14. Signature of Print/Driver or Licensed Supervisory Driller: Kenneth R Sweeney KRS Date Signed 8/25/94

Signature of Drill Rig Operator (Mandatory unless same as above) Date Signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Comments on reverse side ____ (Check √, if yes)

DNR

WELL CONSTRUCTION REPORT Form 3300-77A Rev. 7-93

WGNIS ORIGINAL

41

Seybold

FEB 22 1974

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha — CHECK ONE: ☐ Town ☐ Village ☒ City — NAME: Muskego

2. LOCATION – ¼ Section: SE, NW, SW, — Section: 17 — Township: T-5-N — Range: R-20-E
OR – Grid or street no.: W200S8475 — Street name: Woods Rd.
AND – If available subdivision name, lot & block no.:

3. OWNER AT TIME OF DRILLING: John Seybold
ADDRESS: W200S8475 Woods Rd.
POST OFFICE: Muskego, Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15			28			15		

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		Not in yet			Not in yet				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	10			
6	10	285			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel Casing 19.45# T&C, New	Surface	260

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill Cuttings	Surface	10

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	10
Sand & Gravel	10	22
Clay & Gravel	22	65
Clay	65	115
Sand & Gravel	115	150
Clay	150	190
Sand & Gravel	190	225
Clay Sand & Gravel	225	260
Lime Rock	260	285

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on February 14, 1974

11. MISCELLANEOUS DATA
Yield test: 4/ Hrs. at 11 GPM
Depth from surface to normal water level 40 ft.
Depth to water level when pumping 82 ft.

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison — laboratory on: February 14, 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: David J. Ruhr — Registered Well Driller
COMPLETE MAIL ADDRESS: 1098 W. West Home Ave. Hales Corners, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
				42 Plot 683565

REV. 3-71

Thiele

N 1/2, NW, SW, Sec 17

Vol. F

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☑ Village ☐ City ☐ Muskego (Check one and give name)

2. Location V. L. Hy 24 - SW¼ of Sec 17 - T5 - NR 19E (Name of street and number of premise or Section, Town and Range number)

3. Owner ☑ or Agent ☐ Kenneth L. Thiele (Name of individual, partnership or firm)

4. Mail Address Rt 2, Box 196, Mukwonago, Wis (Complete address required)

RECEIVED MAY 9 1956 ENVIRONMENTAL SANITATION

5. From well to nearest: Building 6 ft; sewer 35 ft; drain 25 ft; septic tank 60 ft; dry well or filter bed 70 ft; abandoned well ____ ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	25			
7" OD	25	77			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
7" OD	23 lbs per ft	0	77
	Black Steel		
	Pipe		

9. GROUT:

Kind	From (ft.)	To (ft.)
Blue clay slurry	0	25

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Blue Clay	0	55
Red clay - sand	55	68
Sand (waterbearing)	68	72
Gravel (waterbearing)	72	77

11. MISCELLANEOUS DATA:

Yield test: 8 Hrs. at 20 GPM.

Depth from surface to water-level: 18 ft.

Water-level when pumping: 20 ft.

Water sample was sent to the state laboratory at: Madison (City) on April-30 19 56

Construction of the well was completed on: April-30- 19 56

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

Signature Andrew Egelske (Registered Well Driller) R3, Box 112, Waukesha, Wisc (Complete Mail Address)

Please do not write in space below

Rec'd MAY 1 - 1956 No. 11521

And'd ____

Interpretation Because of the presence of B. Coli in one of the 10 cc portions of this sample another examination is advisable.

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	—	—	—	—	—
48 hrs.	+	0	0	0	0
Confirm	+				
B. Coli	✓				43

nor

10/30/1997 15:56 414-229-0810 WI DNR

A. Vitrano

PAGE 02

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER **HO776**

Property Owner: VITRANO, TONY
Telephone Number: — —

Mailing Address: W208 S8861 HILLENDAL
City: MUSKEGO. State: WI Zip Code: 53150

County of Well Location: WAUKESHA
Co. Well Permit No.:
Well Completion Date: August 6, 1995

City: 68
Well Constructor (Business Name): STEVE HARTMAN
License #: 0324
2. Dates: 08/28/95 Rcvd
Dist: 2
Address: W224 S8490 INDUSTRIA
City: BIG BEND State: WI Zip Code: 53103
05/14/97 Create
10/31/95 Last FM

P — M=Munic. O=OTM N=NonCom P=Priv Z=Other X=Non-Pot. A=Anode L-Loop H=Drillhole

1. Well Location: C T=Town C=City V=Village of MUSKEGO
Fire # (if avail.)
Unit or Street Address or Road Name and Number: W208 S8861 HILLENDALE RD
Subdivision Name: Lot #: Block #:
Gov't Lot # ____ or NE 1/4 of NE 1/4 of
Section 19, T 05 N; R 20 E (E/W)

3. Well Type: 2 1 = New 2 = Replacement 3 = Reconstruction
of previous unique well # ____ constructed in 19__
Reason for new, replaced or reconstructed well?
BAD LATTERALL TO HOME
1 1 = Drilled 2 = Driven Point 3 = Jetted 4 = Other

4. Well serves 0001 # of homes and or
(Ex: barn, restaurant, church, school, industry, etc.)
High Capacity: Well? N Property? N

5. Well located on highest point of property, consistent with the general layout and surroundings?
Well located in floodplain? N

Distance in Feet From Well To Nearest:
1. Landfill
15 2. Building Overhang
40 3. Septic or Holding Tank (circle one)
60 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline/Swimming Pool
25 9. Downspout/Yard Hydrant Y
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain
1 = Cast Iron or Plastic 2 = Other
14. Building Sewer 1=Gravity 2=Pressure
1 = Cast Iron or Plastic 2 = Other
15. Collector or Street Sewer
20 16. Clearwater Sump
30 17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo - Type
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure
1 = Cast Iron or Plastic 2 = Other
23. Other Manure Storage
Other NR 112 Waste Source
24..

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6.0	surface	12

Method of constructing upper enlarged drillhole only.
1. Rotary - Mud Circulation
X 2. Rotary - Air
3. Rotary - Foam
4. Reverse Rotary
5. Cable-tool Bit ____ in. dia.
6. Temp. Outer Casing ____ in. dia. Removed?
7. Other

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6.0	NEW BLACK PE ASTMA53B 19 LB SAWHILL STEEL	surface	120
			0
			0
			0

Dia. (in.)	screen type, material & slot size	From	To
			0

8. Grout or Other Sealing Material
Method GRAVITY

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
GRUMMBLES	surface		

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
C	CLAY	Surface	74
S	SAND	74	119
BL	BROKEN LIME	119	120
L	LIMESTONE	120	125
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0

10. Static Water Level: 1.0 ft. B ground surface
A=Above B=Below

11. Pump Test
Pumping Level 1.0 ft. below ground surface
Pumping at 30.0 GPM M 2.00 hrs

12. Well 1s: 12 in. A Grade
A=Above B=Below
Developed? Y
Disinfected? Y
Capped? Y
Depth (feet) 0125.00

13. Did you permanently seal all unused, noncomplying, or this are well? N
If no, explain S@R PUMP TO DO

14. Signature of Point Driver or Licensed Supervisory Driller: SLH Date Signed: 8/6/95
Signature of Drill Rig Operator (Mandatory unless same as above): SLH Date Signed

Additional Comments? More Geo? Owner Sent Label? Y

0.0
0.0

44

PW-2

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☒ Village ☐ City ☐ Muskego (Check one and give name)
S.W.1/4 sec.18 T.5 N.R.20 E.

2. Location S.E. cor of County "A" and crowbar Rd.
Name of street and number of premise or Section, Town and Range number

RECEIVED FEB 14 1955 ENVIRONMENTAL SANITATION

3. Owner ☒ or Agent ☐ Zigmunt Sobotka
Name of individual, partnership or firm

4. Mail Address 107 W.Mitchel St. Milwaukee Wisc.
Complete address required

5. From well to nearest: Building 15 ft; sewer 30 ft; drain 15 ft; septic tank 65 ft; dry well or filter bed 65 ft; abandoned well 30 ft.

6. Well is intended to supply water for: Tavern home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
6	0	317			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	blk. Wd 19.45	0	258

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill mud	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
clay stony		18
gravel clay	44	62
gravel muddy	32	94
gravel fine	24	118
sandmuddy	131	249
clay gravel	18	257
limestone light WB	52	309
shale blue	8	317

11. MISCELLANEOUS DATA:

Yield test: 13 Hrs. at 10 GPM.

Depth from surface to water-level: 43 ft.

Water-level when pumping: 50 ft.

Water sample was sent to the state laboratory at: Kenosha (City) on 11/17 19 44

Construction of the well was completed on: Nov.17 19 44

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes x No

Was the well sealed watertight upon completion? Yes x No

Signature Arber & Krumm (Registered Well Driller) B. J. Gader 5807 W.Hampton Rd Milwaukee 16 (Complete Mail Address)

Please do not write in space below

Rec'd No.

Ans'd

Interpretation

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner

45

PW-10

NE, NW, SE, Sec 18

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

RECEIVED
JUN 9 1949
BUREAU SAN. ENG.

1. County Waukesha { Town ☒ / Village ☐ / City ☐ } Mukwonago (Check one and give name)

2. Location N.W. 1/4 of S.E. 1/4 of Section 18 T-5-N R-20-E. (Name of street and number of premise or Section, Town and Range numbers)

3. Owner ☐ or Agent ☐ Mike Dubiak (Name of individual, partnership or firm)

4. Mail Address R. 2 Mukwonago Wis. (Complete address required)

5. From well to nearest: Building 15 ft; sewer 15 ft; drain 15 ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: Private Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20			
5	20	90			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
5	Steel Pipe	0	90

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill Cuttings	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay	0	85
Gravel	85	90
Gravel came up into pipe two feet.		

Construction of the well was completed on: 4/23/49 19____

The well is terminated 6 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No ____

Was the well sealed watertight upon completion? Yes X No ____

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 8 GPM.

Depth from surface to water-level: 16 ft.

Water-level when pumping: 16 ft.

Water sample was sent to the state laboratory at: Madison City on 4/23/49 19____

Signature Myron Acker & Sons Registered Well Driller

Helen Corners Wis. Complete Mail Address

Please do not write in space below

Rec'd ____ No. ____

Ans'd ____

Interpretation ____

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ____

46

68355

PW-22

? SW, SE, Sec 18
or N½, NW, NE, SEC 19 T6N R20E

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha (Town ☑ Village ☐ City ☐ Check one and give name) Town ☑ Muskego

2. Location ¼ mile S of Hy 24 - On West side of Muskego Drive
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ Kenneth D Purdy
Name of individual, partnership or firm

4. Mail Address Box 183, Route #2, Muskego, Wis.
Complete address required

5. From well to nearest: Building 30 ft; sewer 100 ft; drain 30 ft; septic tank 100 ft; dry well or filter bed 120 ft; abandoned well 4 ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
6	20	225			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard weight Black Steel Pipe	0	226

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Red clay	0	25
Blue clay	25	180
Silty sand	180	205
Water bearing Gravel (water bearing)	205	225

RECEIVED
OCT 4 1957
ENVIRONMENTAL SANITATION

Construction of the well was completed on: Oct - 5 - 19 57

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No

Was the well sealed watertight upon completion? Yes ✓ No

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 15 GPM.

Depth from surface to water-level: 3 ft.

Water-level when pumping: 8 ft.

Water sample was sent to the state laboratory at: Madison City on Oct - 7 - 19 57

Signature Andrew Engebretson
Registered Well Driller

RR Box 112, Waukesha, Wisc
Complete Mail Address

Please do not write in space below

Rec'd OCT 8 - 1957 No. 34727

Ans'd

Interpretation SAFE

SEE OTHER SIDE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0				47

Examiner

PW-2A

LJW

...of Wisconsin
...of Natural Resources
...ivate Water Supply
...Box 7921
...Wisconsin 53707

NOTE:
White Copy — Division's Copy
Green Copy — Driller's Copy
Yellow Copy — Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 2-79

PW-27

...TY: Waukesha	CHECK (✓) ONE: ☐ Town ☐ Village ☒ City			Name: Muskego	
LOCATION	¼ Section or Gov't. Lot: SW¼	Section: 18	Township: 5N	Range: 20E	3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Metro Landfill
OR	Grid or Street No.: S85 W21412	Street or Road Name: Janesville Rd.			ADDRESS: 10712 South 124th St.
AND	If available subdivision name, lot & block No.				POST OFFICE: Franklin, Wisconsin 53132 ZIP CODE

Distance in feet from well to nearest: (Record answer in appropriate block)	Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
	20										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr.	Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pneumatic Tank
									68		78	

Privy	Pet. Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: 3 homes

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	522			
6	522	838			

7. ...G, LINER, CURBING AND SCREEN

(in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	18.97 lbs. per ft.	Surface	522
	new steel plain end ASTM A120 Union Steel		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat cement grout	Surface	522

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	49
Sand and gravel	49	158
Clay	158	219
Sand and gravel	219	244
Limestone	244	307
Shale	307	522
Limestone	522	784
Sandstone	784	838

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on September 26 1983

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 5 Hrs. at 55 GPM

Depth from surface to normal water level 347 Ft.

Depth of water level when pumping 605 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on September 27 1983

...inion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Business Name and Complete Mailing Address
Herr Well Drilling, Inc.
295 Marsh Rd., Dousman, Wis. 53118

Registered Well Driller

48

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

JUL 5 1977

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

PW-20

COUNTY: Waukesha
CHECK (✓) ONE: ☐ Town ☐ Village ☒ City
Name: Muskego

2. LOCATION: NE¼ | ¼ Section: SW¼ | Section: 18 | Township: 5N | Range: 20E
OR – Grid or Street No.: 581 W21392 | Street Name: Wauer Lane
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Muskego Rendering Company WELL #3
ADDRESS: 581 W21392 Wauer Lane PERM. WELL # 65625
POST OFFICE: [illegible] WAUKESHA IND. #7

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
165			125							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench
											130			135	

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		270			270							

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)
				315	Sanitary Land Fill 340 842

5. Well is intended to supply water for: Rendering Plant

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
[illegible]	Surface	511			
	511	863			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
[illegible]	New black steel pipe plain end, welded joints, .322 wall, ASTM 553 U.S. Steel Mfgr.	Surface	511

CC: STATE Geologist
APPROVAL DATE: 3/14/77
FILE LOCATION: MUSKEGO

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	511

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	57
Gravel	791 57	67
Clay	781 67	80
Gravel/ thin layers of hardpan	768 80	293
Broken Limestone	293	309
Solid Limestone	309	326
Shale	326	500
Limestone	500	799
Sand Stone	799	863

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on May 16 1977

11. MISCELLANEOUS DATA
Yield Test: 11 Hrs. at 103 GPM
Depth from surface to normal water level 347 Ft.
Depth of water level when pumping 550 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on June 8 1977

[illegible]r opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of [illegible]shing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Dennis Porter Sr. Registered Well Driller

Complete Mail Address: EGOFSKE - PORTER DRILLING INC.
RT. 2 BOX 58
MUKWONAGO, WIS. 53149

49

PW-G

ELL CONSTRUCTOR'S REPORT

IRM.3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

SEP 29 1972

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

CC Y Waukesha | CHECK ONE: ☐ Town ☐ Village ☑ City | NAME: Muskego

LOCATION – ¼ Section: SW, SE, SE, | Section: 18 | Township: T5N | Range: R20-E

3. OWNER AT TIME OF DRILLING: Herbert L. Lachmann

t – Grid or street no.: W207-S8602 | Street name: Willendale dr.

ADDRESS: W207-S8602 Willendale, dr

ND – If available subdivision name, lot & block no.

POST OFFICE: Muskego Wisc 53150

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15'			65'				65'	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
65'		80'		90'	90'				

THER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Home

DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	247			

CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
	Black Steel Pipe	Surface	240
new	Threaded & Coupled		
19.	45 lbs. per ft		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Fine sand	Surface	40
Clay - small Pebbles	40	220
Sand (waterbearing)	220	24
Limerock, dense	240	241
(waterbearing)		

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
NONE	Surface	

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on Sept 27 19 72

11. MISCELLANEOUS DATA

Yield test: 24 Hrs. at 15 GPM

Well is terminated 8 inches ☑ above ☐ below final grade

Depth from surface to normal water level 8" above gr ft.

Well disinfected upon completion ☑ Yes ☐ No

Depth to water level when pumping 8" " ground ft.

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to State

Laboratory on: Sept 28 19 72

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Andrew Egofske
Registered Well Driller

COMPLETE MAIL ADDRESS: 5300S, Egofske rd New Berlin, Wis SC

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
				plot 68355G

PW-M

NW, NE, SE, Sec 18

Wel. 6-80M(6-50)

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

RECEIVED JUL 6 1951 RUFFALO SAN DIEGO

1. County Waukesha — Town [X] Village [ ] City [ ] Muskego (Check one and give name)

2. Location N.E. 1/4 of S.E. 1/4 of Section 18 T-5-N R-20-E. (Name of street and number of premise or Section, Town and Range numbers)

3. Owner [ ] or Agent [ ] Edward Majeske OWNED (As of 4/3/97) By KRISTOPHER MAGESKE (Name of individual, partnership or firm)

4. Mail Address R.2 Mukwonago, Wis. S83 W20671 JANESVILLE RD. (Complete address required)

5. From well to nearest: Building 10 ft; sewer 25 ft; drain 10 ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: Private Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20			
6	20	82			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel Pipe	0	82

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill Cuttings	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay	0	80
Gravel	80	81
Gravel came up into pipe one foot.		

Construction of the well was completed on: 6/23/51 19__

The well is terminated 6 inches [X] above, below [ ] the permanent ground surface.

Was the well disinfected upon completion? Yes ____ No ____

Was the well sealed watertight upon completion? Yes ____ No ____

11. MISCELLANEOUS DATA:

Yield test: 3 Hrs. at 10 GPM.

Depth from surface to water-level: 2 ft.

Water-level when pumping: 4 ft.

Water sample was sent to the state laboratory at: Kenosha (City) on 6/23/51 19__

Signature Myron Acker & Sons (Registered Well Driller) Hales Corners, Wis. (Complete Mail Address)

Please do not write in space below

Rec'd ____ No. ____

Ans'd ____

Interpretation ____

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

51

PW-16

☐ Town ☐ Village ☒ City

W204 So. 8164 HILLEN DALE RD.

VAL HALBRUCKER

Distance in feet from well to nearest

	9	25	25		20

		5" D			60				

OTHER POLLUTION SOURCES (Give examples such as septic, quarry, drainage well, sewers, pools, etc.)

6. Well is intended to supply water for: RESIDENCE

7. DRILLINGS

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	16			
6	16	292			

8. CASING, LINER, CURB NO. AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
	PLA. SMLS. PVC	Surface	281
	[illegible] CONN.		
	VARIETY FOUNDRY		
	19.45#		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
SAND	Surface	16

10. FORMATIONS

Kind	From (ft.)	To (ft.)
STONEY RED CLAY	Surface	16
HARD PAN	16	190
SAND	190	28
GRAVEL	280	282

RECEIVED
JAN 17 1982
WARZYN ENGINEERING

Well construction completed on JAN. 18 1968

Well is terminated [illegible] inches [illegible]

Well disinfected upon completion ☒ Yes

Well sealed watertight upon completion ☒ Yes

11. MISCELLANEOUS DATA

Yield test 4 Hrs. at 20 GPM

Depth from surface to normal water level 30 ft.

Depth to water level when pumping 50 ft.

Water sample sent to MADISON Laboratory on 2/13 1968

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relative to wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, [illegible] surface pumprooms, access pits, etc., should be given on reverse side.

R. J. Wurst "Registered Well Driller

Contractor's Mail Address: 1721 W. GRANGE AVE. MILW. WIS. 53221

52

Please do not write in space below

Contractor's Test Result	Gas—Lb. Used	Gas—Lb. Lost	Cost of Gas

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

E½, Sec 24

See Instructions on Reverse Side

1. County Waukesha {Town ☑ Village ☐ City ☐} Check one and name Vernon

2. Location V. S. Hy 24 - NE & SE Sec 24 - T5N - R19E
Name of street and number of premise or Section, Town and Range numbers

RECEIVED
OCT 29 1956
ENVIRONMENTAL SANITATION

3. Owner ☑ or Agent ☐ Valentines Bros.
Name of individual, partnership or firm

4. Mail Address Route 2, Box 109 Mukwonago, Wis
Complete address required

5. From well to nearest: Building 6 ft; sewer 35 ft; drain 30 ft; septic tank 60 ft; dry well or filter bed 70 ft; abandoned well 200 ft.

6. Well is intended to supply water for: 2 homes - one farm

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	6	6	20	160
8	6	20			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard Weight Black Steel Pipe	0	155

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Red clay - boulders	0	20
Sand - gravel	20	100
Quick sand (waterbearing)	100	145
Hardpan - broken rock dolomite	145	155
Limerock dense (waterbearing)	155	160

Construction of the well was completed on: Oct - 18 - 19 56

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No

Was the well sealed watertight upon completion? Yes ✓ No

11. MISCELLANEOUS DATA:

Yield test: 12 Hrs. at 30 GPM.

Depth from surface to water-level: 45 ft.

Water-level when pumping: 50 ft.

Water sample was sent to the state laboratory at: Madison City on Oct-22-19 56

Signature Andrew Egofske
Registered Well Driller

R3, Box 112, Waukesha, Wisc
Complete Mail Address

Please do not write in space below

Rec'd OCT 23 1956 No. 38860

Ans'd

Interpretation Because of the presence of B. Coli in one of the 10 cc. portions of this sample another examination is advisable.

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	+				
48 hrs.		0	0	0	0
Confirm	+				53
B. Coli	/				

Examiner

WISCONSIN UNIQUE WELL NUMBER **MP755**

Source: WELL CONSTRUCTION

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Property Owner: KING, MARK @ GINA
Telephone Number: 414-662-3376

Mailing Address: W216 S9311 CROWBAR

City: MUSKEGO | State: WI | Zip Code: 53150

County of Well Location: 68 WAUKESHA
Co Well Permit No: W
Well Completion Date: October 13, 1998

Well Constructor: EGOFSKE PORTER DRILLING INC | License #: 510
Address: S103 W26420 MAPLE AV
City: MUKWONAGO | State: WI | Zip Code: 53149
Hrcap Permanent Well #:
Common Well #:

Facility ID (Public):
Public Well Plan Approval#:
Date Of Approval:
Specific Capacity: gpm/ft

3. Well Serves: P (# of homes and or RESIDENCE; eg: barn, restaurant, church, school, industry, etc.)
M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? N; Property? N

1. Well Location

T=Town C=City V=Village: C of MUSKEGO
Fire#:
Street Address or Road Name and Number: W216 S9272 CROWBAR RD
Subdivision Name:
Lot#:
Block #:

Depth 126 FT

Gov't Lot or NE 1/4 of SW 1/4 of Section 19 T 5 N;R 20 E

Latitude Deg. 42 Min. 52.6499
Longitude Deg 88 Min. 10.901

2. Well Type 1 (See item 12 below)
1=New 2=Replacement 3=Reconstruction
Lat/Long Method:
of previous unique well # _____ constructed in 0

Reason for replaced or reconstructed Well?
NEW HOME

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? Y
Well located in floodplain? N
Distance in feet from well to nearest: (including proposed)

1. Landfill
8 2. Building Overhang
29 3. 1=Septic 2= Holding Tank
70 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
10 11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
30 14. Building Sewer 1 1=Gravity 2=Pressure
1 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
10 16. Clearwater Sump
48 17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method — Lower Open Bedrock

Dia.(in.)	From (ft)	To (ft)
6.0	surface	126

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ in. dia
-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?
Other

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	18
_S_	SAND	18	57
_NS_	FINE GRAY SAND	57	88
_CS	SANDY CLAY	88	103
_S_	SAND	103	125
_Y_	SAND @ GRAVEL	125	126

6. Casing Liner Screen Material, Weight, Specification

Dia. (in.)	Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6.0	A53 GR B 18 97# WT BLK 280 WALL PE WELDED JTS SAWHILL MFGR	surface	126

Dia.(in.)	Screen type, material & slot size	From	To

7. Grout or Other Sealing Material

Method MOUNDED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
#8 MESH BENTONITE	surface	126.0	

9. Static Water Level
34.0 feet B ground surface (A=Above B=Below)

10. Pump Test
Pumping level 60.0 ft. below surface
Pumping at 35.0 GP M 1.5 Hrs

11. Well Is: 12 in. A Grade (A=Above B=Below)
Developed? Y
Disinfected? Y
Capped? Y

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
If no, explain: NONE

13. Initials of Well Constructor or Supervisory Driller: DP — Date Signed: 10/15/98

Initials of Drill Rig Operator (Mandatory unless same as above) — Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 550

54

WISCONSIN UNIQUE WELL NUMBER **OS044**

Source: WELL CONSTRUCTION

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources. Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Depth 260 FT

Property Owner: MARTIN, BRIAN	Telephone Number: 662-056-3	
Mailing Address: S88 W22945 PARK AVE		
City: BIG BEND	State: WI	Zip Code: 53103
County of Well Location: 68 WAUKESHA	Co Well Permit No: W	Well Completion Date: September 18, 2001

1. Well Location

T=Town C=City V=Village: C of MUSKEGO

Fire#:

Street Address or Road Name and Number: W207 S9298 HILLENDALE DR

Subdivision Name: | Lot#: | Block #:

Gov't Lot or NE 1/4 of SE 1/4 of Section 19 T 5 N:R 20 E

Latitude Deg. 42 Min. 52.6578

Longitude Deg 88 Min. 10.3101

Well Constructor: EGOFSKE PORTER DRILLING INC	License #: 510	Facility ID (Public):
Address: S103 W26420 MAPLE AVE		Public Well Plan Approval#:
City: MUKWONAGO	State: WI	Zip Code: 53149
Hrcap Permanent Well #:	Common Well #:	Specific Capacity: gpm/ft

Date Of Approval:

2. Well Type (See item 12 below) Lat/Long Method

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?

3. Well Serves P # of homes and or RESIDENCE (eg: barn, restaurant, church, school, industry, etc.)

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? N Property? N

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? Y

Well located in floodplain? N

Distance in feet from well to nearest: (including proposed)

1. Landfill
16 2. Building Overhang
110 3. 1=Septic 2= Holding Tank
115 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
18 11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
33 14. Building Sewer 1 1=Gravity 2=Pressure 1 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
68 16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
6.0	surface	260

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ in. dia
-- 7. Temp. Outer Casing _ in. dia. ____ depth ft. Removed ?
Other

Lower Open Bedrock

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	18
_CS	SANDY CLAY	18	34
G_CM	GRAY SILTY CLAY	34	55
G_XG	GRAY SAND, CLAY, GRAVEL	55	95
_L_	LIMESTONE	95	260

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6.0	A53 GR B 18.97# WT BLK .280 WALL P.E. WELDED JTS SAWHILL MFGR	surface	95

Dia.(in.)	Screen type, material & slot size	From	To

7. Grout or Other Sealing Material

Method MOUNDED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
#8 MESH BENTONITE	surface		

9. Static Water Level
15.0 feet B ground surface (A=Above B=Below)

10. Pump Test
Pumping level 140.0 ft. below surface
Pumping at 10.0 GP M 2.0 Hrs

11. Well Is: 12 in. A Grade (A=Above B=Below)
Developed? Y
Disinfected? Y
Capped? Y

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
If no, explain NONE

13. Initials of Well Constructor or Supervisory Driller: RP Date Signed: 9/29/01

Initials of Drill Rig Operator (Mandatory unless same as above): SRM Date Signed: 10/1/01

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 760

55

Edgewood Avenue Wells

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

JAN 25 1974
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1 COUNTY: Waukesha
CHECK ONE: [X] Town [ ] Village [ ] City
NAME: Vernon

2. LOCATION – ¼ Section: S½ S½ SW¼ | Section: 13 | Township: T.5N | Range: R.19E.
OR – Grid of street no | Street name: Edgewood dr.
AND – If available subdivision name, lot & block no

3 OWNER AT TIME OF DRILLING: Ronald Johnsen
ADDRESS: 10043 W. Edgerton Ave.
POST OFFICE: Hales Corners Wis.

4. Distance in feet from well to nearest. (Record answer in appropriate block)

BUILDING	SANITARY SEWER C I	SANITARY SEWER TILE	FLOOR DRAIN C I	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C I.	WASTE WATER DRAIN TILE
16						16	25	

CLEAR WATER DRAIN C.I	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
	16	55		65	65				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: New Home

6. DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia (in.)	From (ft.)	To (ft.)
8 3/4	Surface	80			
6	80	140			

7. CASING, LINER, CURBING, AND SCREEN

Dia (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Black Steel	Surface	80
	Pipe .280 Wall		
	Plain end welded		
	Joints 18.97 lb		
	per ft. Wt.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	80

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	26
Grey Clay	26	53
Sand & Gravel	53	59
Grey Clay	59	78
Medium Hard Lime Stone (Water Bearing)	78	140

10. TYPE OF DRILLING MACHINE USED
[ ] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[X] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on: Jan 24 19 74

11. MISCELLANEOUS DATA
Yield test: 1½ Hrs. at 15 GPM
Depth from surface to normal water level: 40 ft.
Depth to water level when pumping: 75 ft.

Well is terminated 8 inches [X] above [ ] below final grade
Well disinfected upon completion [X] Yes [ ] No
Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to Madison State Lab of Hygiene laboratory on: Jan 28 19 74

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Dennis Porter Registered Well Driller
COMPLETE MAIL ADDRESS: Rt. 2 Box 98 Mukwonago Wis. 53149

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS
				59

REV 3-71

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☑ Vernon / Village ☐ / City ☐ (Check one and give name)
2. Location Edgewood Ave — N½, NE, NE, Sec 24, T5N R19E (Name of street and number of premise or Section, Town and Range numbers)
3. Owner ☑ or Agent ☐ Joe Bronke (Name of individual, partnership or firm)
4. Mail Address Big Bend, Wisc (Complete address required)
5. From well to nearest: Building 5 ft; sewer 30 ft; drain 25 ft; septic tank 60 ft; dry well or filter bed 70 ft; abandoned well ____ ft.
6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	25			
5	25	118			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
85	Standard Weight Black Steel Pipe	0	118

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay Slurry	0	25

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Gravel	0	25
Sand	25	64
Blue clay	64	105
Sand (water bearing)	105	111
Gravel (water bearing)	111	118

RECEIVED
JUL 8 1957
ENVIRONMENTAL SANITATION

Construction of the well was completed on: June 24 19 57

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 14 GPM.

Depth from surface to water-level: 28 ft.

Water-level when pumping: 30 ft.

Water sample was sent to the state laboratory at: Madison City on June 26 19 57

Signature Andrew Egofske (Registered Well Driller) — R3, Box 112, Waukesha, Wisc (Complete Mail Address)

Please do not write in space below

Rec'd JUN 27 1957 No. 19401

Ans'd ____

Interpretation UNSAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	+	+	+		
48 hrs.			+	+	+
Confirm	+	+	+		
B. Coli	3/				60

Examiner ____

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☐ Village ☒ Big Bend City ☐ (Check one and give name)

2. Location 1 Bl. E of Clark st. on Edgewood Ave Big Bend, Wis
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Roy Ellerson — NW, NW, NE sec 24 T5N R19E
Name of individual, partnership or firm

4. Mail Address Rt. 1 Big Bend Wis
Complete address required

5. From well to nearest: Building 25 ft; sewer 50 ft; drain 25 ft; septic tank 55 ft; dry well or filter bed 85 ft; abandoned well ——— ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20	6	20	135

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard weight Black	0	83

9. GROUT:

Kind	From (ft.)	To (ft.)
Cement	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Gravel	0	45
Hardpan	45	70
Clay (stony)	70	80
Hardpan	80	83
Limestone Water bearing	83	135

RECEIVED
MAR 10 1957
ENVIRONMENTAL SANITATION

Construction of the well was completed on: March 6 19 57

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No ———

Was the well sealed watertight upon completion? Yes X No ———

11. MISCELLANEOUS DATA:

Yield test: 3 1/2 Hrs. at 15 GPM.

Depth from surface to water-level: 35 ft.

Water-level when pumping: 35 ft.

Water sample was sent to the state laboratory at: ——— City on March 7 19 57

Signature Kenneth A Sweeney — Registered Well Driller

6587 N Cape Rd. Hales Corners, Wis — Complete Mail Address

Please do not write in space below

Rec'd MAR 8 1957 No. 5999

Ans'd ———

Interpretation SAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0				61

Examiner

Wel. 6-30M((6-50)

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

NW, NW NE, Sec 24 T5N R19E

1. County Waukesha — Town ☑ Village ☐ City ☐ Vernon (Check one and give name)

2. Location V.S. Hy 24 East limits N. village of B. ig Bend Wisc
Name of street and number of premise or Section, Town and Range number

3. Owner ☑ or Agent ☐ Mrs. Margret E. Larson
Name of individual, partnership or firm

4. Mail Address R2, Markesanago
Complete address required

RECEIVED MAY 16 1953 ENVIRONMENTAL SANITATION

5. From well to nearest: Building 8 ft; sewer 60 ft; drain 45 ft; septic tank 60 ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	0	124			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	Standard weight Black Steel Pipe	0	114

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Broken rock gravel	0	20
Sand	20	60
Gray sand	60	100
Gravel	100	114
Limerock dense (Easterbrooks)	114	124

Construction of the well was completed on: May 16 1953

The well is terminated 6 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 10 GPM.

Depth from surface to water-level: 20 ft.

Water-level when pumping: 38 ft.

Water sample was sent to the state laboratory at: Madison City on May 18 1953

Signature Andrew Egefoke Registered Well Driller

R3 Box 89, Waukesha, Wisc Complete Mail Address

Please do not write in space below

Rec'd MAY 19 1953 No. 7538

Ans'd ____

Interpretation Safe

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	0	0	0	0	0
48 hrs.	0	0	0	0	0
Confirm					
B. Coli	0	0	0	0	0

Examiner 62

WELL CONSTRUCTOR'S REPORT

Wel-6

WHITE COPY - DIVISION'S COPY
GREEN COPY - DRILLER'S COPY
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha — CHECK ONE: ☐ Town ☒ Village ☐ City — NAME: Bay Bend

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
519 Edgewood - NE¼ of Sec 24 - Twn 5 N. - Rge 19 E

3. OWNER AT TIME OF DRILLING
Dave Moll

4. OWNER'S COMPLETE MAIL ADDRESS
P.O. Box 52 Pewaukee, Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
13						-	✓	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60	No	No	65	No	No	No	No

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
None

6. Well is intended to supply water for:
Residence

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	40			
6	40	120			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Rlk steel	Surface	120
	T+C 19.45		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Puddled Clay	Surface	40

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay with Stones & Sand	Surface	21
Sand with a Clay	21	29
Sand	29	60
Sand with Clay	60	114
Sand	114	120

Well construction completed on 3-1 19 71

11. MISCELLANEOUS DATA
Yield test: 12 Hrs. at 15 GPM

Depth from surface to normal water level 55 ft.

Depth to water level when pumping 60 ft.

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison 3-1-71 laboratory on: 3-1-71 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Francis G. Williams Registered Well Driller

COMPLETE MAIL ADDRESS: 6336 W. Kaul Milwaukee, Wis 53218

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
				63

REV 11 68

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha — Town ☐ Village ☒ City ☐ Big Bend (Check one and give name)

2. Location 500 East Edgewood Ave. (Name of street and number of premise or Section, Town and Range numbers) NE, NE, NW, Sec 24 T5N R19E

3. Owner ☒ or Agent ☐ Donald Swayze (Name of individual, partnership or firm)

4. Mail Address 507 E. Edgewood Ave. Big Bend (Complete address required)

5. From well to nearest: Building 5 ft; sewer ____ ft; drain ____ ft; septic tank 50 ft; dry well or filter bed 75 ft; abandoned well ____ ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20	6	20	145

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard weight Black	0	96

9. GROUT:

Kind	From (ft.)	To (ft.)
Clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Gravel	0	45
Sand & clay	45	60
Clay (sandy)	60	75
Hardpan	75	96
Limestone (water bearing)	96	145

RECEIVED
SEP 2 1958
ENVIRONMENTAL SANITATION

Construction of the well was completed on: Aug 23 1958

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

11. MISCELLANEOUS DATA:

Yield test: 3½ Hrs. at 10 GPM.

Depth from surface to water-level: 40 ft.

Water-level when pumping: 50 ft.

Water sample was sent to the state laboratory at: ____ (City) on Aug 25 1958

Signature Kenneth J. Sweeney (Registered Well Driller) 6887 So North Cape Rd. Hales Corners (Complete Mail Address)

Please do not write in space below

Rec'd AUG 26 1958 No. 27413

Ans'd ____

Interpretation SAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0				64

Examiner ____

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE FEB 13 1974
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1 COUNTY: Waukesha
CHECK ONE: ☐ Town ☑ Village ☐ City
NAME: Big Bend

2. LOCATION – ¼ Section: NW, NE, NW, Section: 24 Township: 5N Range: 19E
OR – Grid or street no: S87-W22635 Street name: Edgewood Ave
AND – If available subdivision name, lot & block no:

3. OWNER AT TIME OF DRILLING: David Bielfuss Jr.
ADDRESS: S87-W22635
POST OFFICE: Big Bend – Wis 53103

4. Distance in feet from well to nearest. (Record answer in appropriate block)

BUILDING	SANITARY SEWER C I	SANITARY SEWER TILE	FLOOR DRAIN C I	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C I.	WASTE WATER DRAIN TILE
15'						15'	30'	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
30'		70'		75'	75'				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Home – Suburban

6. DRILLHOLE

Dia (in)	From (ft)	To (ft)	Dia (in)	From (ft)	To (ft)
6	Surface	148			

7. CASING, LINER, CURBING, AND SCREEN

Dia (in)	Kind and Weight	From (ft)	To (ft)
6	Black Steel	Surface	92
Pipe	New. T. + C.		
19.45 lbs per ft			

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft)	To (ft)
NONE	Surface	

9. FORMATIONS

Kind	From (ft)	To (ft)
Gravel	Surface	7
Sand	7	70
Hardpan gravel	70	92
Limerock dense	92	115
Limerock dense	115	148
(waterbearing)		

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 2-8- 1974

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11 MISCELLANEOUS DATA
Yield test: 24 Hrs. at 20 GPM

Depth from surface to normal water level 38 ft.

Depth to water level when pumping 45 ft

Water sample sent to State laboratory on: 2-12 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Andrew Egofske Registered Well Driller
COMPLETE MAIL ADDRESS: 5300 S. Egofske rd New B. Elm, Wisc

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS

65

REV 3-71

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha (Town ☑ / Village ☐ / City ☐) Vernon — Check one and give name

2. Location Edgewood Ave — Name of street and number of premise or Section, Town and Range numbers — N½, NE¼NE¼, Sec 24, T5N R19E

3. Owner ☑ or Agent ☐ Joe Bronke — Name of individual, partnership or firm

4. Mail Address Big Bend, Wisc — Complete address required

5. From well to nearest: Building 5 ft; sewer 30 ft; drain 25 ft; septic tank 66 ft; dry well or filter bed 70 ft; abandoned well ____ ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	25			
5	25	118			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
85	Standard Weight Black Steel Pipe	0	118

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay Slurry	0	25

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Gravel	0	25
Sand	25	64
Blue clay	64	105
Sand (waterbearing)	105	111
Gravel (waterbearing)	111	118

RECEIVED
JUL 8 1957
ENVIRONMENTAL SANITATION

Construction of the well was completed on: June 24 19 57

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 14 GPM.

Depth from surface to water-level: 28 ft.

Water-level when pumping: 30 ft.

Water sample was sent to the state laboratory at: Madison City on June 26 1957

Signature Andrew Egolske — Registered Well Driller

R3, Box 112, Waukesha, Wisc — Complete Mail Address

Please do not write in space below

Rec'd JUN 27 1957 No. 19401

Ans'd ____

Interpretation UNSAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	+	+	+		
48 hrs.			+	+	+
Confirm	+	+	+		
B. Coli	3/5				

Examiner ____

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha (Town ☐ Village ☒ City ☐) Big Bend — Check one and give name

2. Location 1 Bl. E of Clarke st. on Edgewood Ave Big Bend, Wis
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Roy Ellerson — Name of individual, partnership or firm
NW, NW, NE sec 24 T5N R19E

4. Mail Address Rt. 1 Big Bend Wis. — Complete address required

5. From well to nearest: Building 25 ft; sewer 50 ft; drain 25 ft; septic tank 55 ft; dry well or filter bed 85 ft; abandoned well ——ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20	6	20	135

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard weight Black	0	83

9. GROUT:

Kind	From (ft.)	To (ft.)
Clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Gravel	0	45
Hardpan	45	70
Clay (stoney)	70	80
Hardpan	80	83
Limestone (water bearing)	83	135

RECEIVED
MAR 1 5 1957
ENVIRONMENTAL SANITATION

Construction of the well was completed on: March 6 19 57

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No ——

Was the well sealed watertight upon completion? Yes X No ——

11. MISCELLANEOUS DATA:

Yield test: 3 1/2 Hrs. at 15 GPM.

Depth from surface to water-level: 35 ft.

Water-level when pumping: 35 ft.

Water sample was sent to the state laboratory at: ——— City on March 7 19 57

Signature Kenneth J. Sweeney — Registered Well Driller

6887 N. Cape Rd. Hales Corners, Wis — Complete Mail Address

Please do not write in space below

Rec'd MAR 8 1957 No. 5999

Ans'd ———

Interpretation SAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0				67

Examiner

Wel. 6-30M(6-50)

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

NW, NW, NE, Sec 24 T5N R19E

See Instructions on Reverse Side

1. County Waukesha — Town ☑ Village ☐ City ☐ Vernon (Check one and give name)

2. Location V.S. Hy 24 East limits Village of Big Bend Wisc (Name of street and number of premise or Section, Town and Range numbers)

3. Owner ☑ or Agent ☐ Mrs. Margaret Ellarson (Name of individual, partnership or firm)

4. Mail Address R2, Mukwonago (Complete address required)

5. From well to nearest: Building 8 ft; sewer 60 ft; drain 65 ft; septic tank 60 ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: Home

RECEIVED MAY 26 1953 ENVIRONMENTAL SANITATION

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	0	124			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	Standard weight	0	114
	Black Steel		
	Pipe		

9. GROUT:

Kind	From (ft.)	To (ft.)
Red clay slurry	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Broken rock gravel	0	20
Sand	20	60
Gray mud	60	100
Gravel	100	114
Limerock dense	~~[illegible]~~	
(waterbearing)	114	124

Construction of the well was completed on: May-16- 1953

The well is terminated 6 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 24 Hrs. at 10 GPM.

Depth from surface to water-level: 30 ft.

Water-level when pumping: 38 ft.

Water sample was sent to the state laboratory at: Madison (City) on May-18-1953

Signature Andrew Egofske (Registered Well Driller) R3 Box 89, Waukesha, Wisc (Complete Mail Address)

Please do not write in space below

Rec'd MAY 19 1953 No. 7538

Ans'd

Interpretation Safe

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	0	0	0	0	0
48 hrs.	0	0	0	0	0
Confirm					
B. Coli	0	0	0	0	0

Examiner 68

First Water Quality Test For

WISCONSIN UNIQUE WELL NUMBER AS 923

NOV 11 1988

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: David Buss | Telephone Number: (414) 757-6501

Mailing Address: Rt. 1 Hwy. 76

City: Appleton, | State: Wi. | Zip Code: 54915

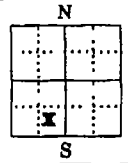
County: Waukesha 68 | County Well Location Permit No.: W | Well Completion Date: 10/26/88 (M M D D Y Y)

Well Constructor (Business Name): Egofske-Porter Drilling | Registration #: 510

Address: S103 W26420 Maple

City: Mukwonago | State: Wi. | Zip Code: 53149

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen)

☒ Town of Vernom ☐ City ☐ Village | Fire # (if available)

Grid or Street Address or Road Name and Number (if available): S87 W22530 Edgewood Ave.

Subdivision Name | Lot # | Block #

Gov't Lot # SE¼ of SE ¼ of SW ¼ of Section 13 ; T 5 N; R 19 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction/Rehabilitation

of well constructed in 19 ____.

Reason for new, reconstructed, replaced, or rehabilitated well?

New Post Office Bldg.

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

4. Well serves 1 # of homes and/or Comm. Bldg. (ex barn, restaurant, church, school, industry, etc.)

High Capacity Well? ☐ Yes ☒ No

High Capacity Property? ☐ Yes ☒ No

5 Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☐ Yes ☐ No Level

Well Located in Floodplain? ☐ Yes ☒ No

Distance In Feet From Well To Nearest:

1160 1 Landfill ✓
24 2. Building Overhang
NI 3 Septic or Holding Tank
NI 4 Sewage Absorption Unit
____ 5 Nonconforming Pit
____ 6. Buried Home Heating Oil Tank
____ 7 Buried Petroleum Tank
____ 8 Shoreline/Swimming Pool
____ 9. Downspout/Yard Hydrant
____ 10. Privy
____ 11. Foundation Drain to Clearwater
____ 12. Foundation Drain to Sewer
____ 13 Building Drain ☐ Cast Iron or Plastic ☐ Other
____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 15. Collector Sewer
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo — Type ____
____ 21. Barn Gutter
____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 23. Other Manure Storage ____ Other NR 112 Waste Source
____ 24. ____

6. Drillhole Dimensions

Dia (in.)	From (ft.)	To (ft.)
8 3/4	surface	105
6	105	152

Method of constructing upper enlarged drillhole. (If applicable ✓ more than one)

☒ 1 Rotary — Mud Circulation
☐ 2 Rotary — Air
☐ 3 Rotary — Foam
☐ 4 Reverse Rotary
☐ 5 Cable-tool Bit ____ in dia.
☐ 6. Temp Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	A53, Blk., P.E., Welded Jts. .280 Wall; 18.97# Per Ft. NKK Japan Mfgr.	surface	105

Dia (in.)	screen type and material	From	To

8. Grout or Other Sealing Material

Method ____

Kind of Sealing Material	From (ft.)	To (ft.)	Sacks Cement
Bentonite & Cuttings	surface	105	

9. Geology

	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SG	Sand & Gravel	surface	18
S	Sand	18	61
NSC	Fine Sand & Clay Layers	61	89
P	Hardpan	89	103
L	Limestone	103	152

10. Static Water Level: 45 ft. above ground level / ____ ft. below ground surface

11. Pump Test: Pumping Level 60 ft. below surface; Pumping at 35 GPM for 1½ hours

12. Well Is: 12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Were all unused, noncomplying, or unsafe wells properly filled with sealant? ☐ Yes ☐ No If no, explain None

14. Signature of Well Constructor: Robert Porter RP Date Signed 11-10-88

Signature of Drill Rig Operator: Donald Porter DP Date Signed 11/10/88

Make additional comments on reverse side about geology, etc. SEE OTHER SIDE

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 1-88

WGNHS ORIGINAL

plat 69 683544

Department of Natural Resources

WELL CONSTRUCTION REPORT COMMENT SHEET
Form 3300-85 Rev. 7-88

A = Add
C = Change F/M Code A
D = Delete

WISCONSIN UNIQUE WELL NUMBER A5923

County Well Location Permit Number W _ _ _ _ _ Distict _ County _ _

Owner's Name _

Hi-cap Permanent Well Number _ _ _ _ _ Facility I.D. Number _ _ _ _ _ _ _ _ _ _
Geologic Log Number _ _ - _ _ _ _ SID Number _ _ _ _ _ _ _ _ _ _
Common Well Number _ _ _
Common Well Name _
Specific Capacity _ _ _ . _
Date of Approval _ _ _ _ _ _
Approval Number _ _ - _ _ _ _

VARIANCE

(1) Type 01 (01 = Distance, 02 = Depth, 03 = Landfill, 04 = Well Construction, 05 = Pump, 06 = Other)
Date of Approval _ _ _ _ _ _
Reason for Issuance 1160 FT TO A LANDFILL
Granted Y (Y or N)

(2) Type _ _ (01 = Distance, 02 = Depth, 03 = Landfill, 04 = Well Construction, 05 = Pump, 06 = Other)
Date of Approval _ _ _ _ _ _
Reason for Issuance _
Granted _ (Y or N)

WATER TREATMENT DEVICE

(1) Type _ _ (01 = Asthetic, 02 = Contaminant)
Date of Approval _ _ _ _ _ _
Comments _

(2) Type _ _ (01 = Asthetic, 02 = Contaminant)
Date of Approval _ _ _ _ _ _
Comments _

REHABILITATION/REDEVELOPMENT

(1) Type _ _ (01 = Blast, 02 = Hydrofracture, 03 = Sonar Jet, 04 = Acidize, 05 = Batch Chlorination, 06 = Air Development)
Date of Approval _ _ _ _ _ _
Date Performed _ _ _ _ _ _
Results _

(2) Type _ _ (01 = Blast, 02 = Hydrofracture, 03 = Sonar Jet, 04 = Acidize, 05 = Batch Chlorination, 06 = Air Development)
Date of Approval _ _ _ _ _ _
Date Performed _ _ _ _ _ _
Results _

27759-2

Comments on Reverse N (Y or N)

9/19/89
070

SW, SW, SE, Sec 13

T5N R19E Sec 13

APR 3 1972

WELL CONSTRUCTOR'S REPORT

Wel-6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1 COUNTY: Waukesha

CHECK ONE: ☐ Town ☒ Village ☐ City

NAME: Big Bend

2 LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
586 W 22410 Edgewood Ave. SW, SW, SE, Sec. 13

3. OWNER AT TIME OF DRILLING
Bernie Schroedl

4. OWNER'S COMPLETE MAIL ADDRESS
5513 Root River Dr. Greendale

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
8						None		

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		65		70					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Industry

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	143

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	19-45 T.C.	Surface	116
	Black iron		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay (slurry)	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Cobblestones & Gravel	Surface	43
Clay & Hardpan	43	116
Limestone (Water Bearing)	116	143

Well construction completed on 3/27 1972

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 15 GPM

Depth from surface to normal water level 46 ft.

Depth to water level when pumping 46 ft.

Water sample sent to Madison laboratory on: 3/27 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Kenneth J. Sweeney
Registered Well Driller

COMPLETE MAIL ADDRESS: 11221 W. St. Martins Rd. Franklin

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
				71

REV 11-68

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCE
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha — CHECK ONE: ☐ Town ☒ Village ☐ City — NAME: Big Bend

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
519 Edgewood – NE¼ of Sec 24 – Twn 5 N. – Rge 19 E

3. OWNER AT TIME OF DRILLING
Dave Moll

4. OWNER'S COMPLETE MAIL ADDRESS
P.O. Box 52 Pewaukee, Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
13						–	✓	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60	No	No	65	No	no	No	no

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
None

6. Well is intended to supply water for:
Residence

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	40			
6	40	120			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New RLR Steel	Surface	120
	T+C 19.45		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Puddled Clay	Surface	40

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay with Stones & Gravel	Surface	21
Gravel with clay	21	29
Sand	29	60
Gravel with Clay	60	114
Gravel	114	120

Well construction completed on 3 – 1 19 71

11. MISCELLANEOUS DATA
Yield test: 12 Hrs. at 15 GPM

Depth from surface to normal water level 55 ft.

Depth to water level when pumping 60 ft.

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison 3-1-71 laboratory on: 3-1-71 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Francis C. Williams Registered Well Driller

COMPLETE MAIL ADDRESS: 6336 W. Karl Milwaukee, Wis 53218

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
				72

REV 11 68

Industrial Avenue Wells

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 2-79

OCT 10 1986

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2 LOCATION: ~~¼ Section~~ or Gov't. Lot ✓ | Section: 13 | Township: T5N | Range: 19E

OR – ~~Grid or Street No~~ | Street or Road Name: ~~Buchet Dr.~~ Buckett St Industrial &

AND – If available subdivision name, lot & block No

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Horn Feeds

ADDRESS: W180 S7725 Pioneer Drive

POST OFFICE: Muskego, Wi. 53150 ZIP CODE:

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg Sewer		Floor Drain Connected To.		Storm Bldg. Drain		Storm Bldg Sewer	
	C.I	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
7										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
San.	Storm	C.I.	Other	Sewer	Clearwater Dr	C.I.	Other		N.I.		Seepage Pit Seepage Bed N.I. Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well Pump Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5 Well is intended to supply water for: Commercial Building

6. DRILLHOLE

Dia (in)	From (ft)	To (ft)	Dia. (in)	From (ft.)	To (ft.)
8 3/4	Surface	131			
6		203			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6"	New black steel pipe plain end, welded joints, .280 wall, 18.97 lb.pr.ft. wt., ASTM A53 G.B. Sumotomo Japan, Mfgr.	Surface	131

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	131

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	32
Sand	32	83
Grey Clay & Sand	83	131
Limestone	131	203

10 TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air Water

Well construction completed on August 18 19 86

11 MISCELLANEOUS DATA

Yield Test: 1½ Hrs. at 15 GPM

Depth from surface to normal water level 45 Ft.

Depth of water level when pumping 110 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on Oct. 6 19 86

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Robert Foster, Pr Registered Well Driller

Business Name and Complete Mailing Address:
Egoake Porter Drilling, Inc.
S103 W26400 MAPLE AVE.
MUKWONAGO, WI 53149

75

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev 2-79

MAY 21 1984

1. COUNTY: Waukesha — CHECK (✓) ONE: ☐ Town ☒ Village ☐ City — Name: Big Bend

2 LOCATION: ¼ Section or Gov't Lot: NW,SE | Section: 13 | Township: 5N | Range: 19E
OR – Grid or Street No.: W224 N5841 2 | Street or Road Name: Industrial Ave
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Bill Smiles
ADDRESS: 2670 S. Clement ave.
POST OFFICE: New Berlin | ZIP CODE: 53207

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
5'										

Street Sewer San	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
											Not Tested		☐ Seepage Pit ☐ Seepage Bed ☐ Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well									
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5 Well is intended to supply water for:

6 DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia (in)	From (ft)	To (ft)
10	Surface	20	6	20	240

7 CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in)	Mfg & Method of Assembly	From (ft.)	To (ft)
6	New Black	Surface	165
	P.E. API-A120		
	Dun-Rite		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft)	To (ft)
Clay Slurry	Surface	

9 FORMATIONS

Kind	From (ft.)	To (ft)
Boulder & Gravel	Surface	43
Gravel & Sand	43	67
Clay & Sand	67	86
Sand	86	137
Gravel & Sand	137	142
Gravel	142	165
Limestone	165	240

10 TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air Water

Well construction completed on 4-30-84 19 84

11 MISCELLANEOUS DATA
Yield Test: 18 Hrs. at 10 GPM
Depth from surface to normal water level 40 Ft.
Depth of water level when pumping 45 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison after Pump Installation laboratory on _____ 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Business Name and Complete Mailing Address:
Hartman Well Drilling
19550 W. Lincoln Ave.
New Berlin, Wis. 53151

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State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev 2-79

MAY 21 1984

1 COUNTY: Waukesha
CHECK (✓) ONE: ☐ Town ☒ Village
Name: Big Bend

2. LOCATION: ¼ Section or Gov't. Lot: NW,SE | Section: 13 | Township: 5N | Range: 19E
OR – Grid or Street No: W224 S8914 | Street or Road Name: Industrial ~~Drive~~ Ave
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Don Thiessen Haus
ADDRESS: 5136 S. South 108th St.
POST OFFICE: Hales Corner | ZIP CODE: 53130

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain		Sanitary Bldg Sewer		Floor Drain Connected To		Storm Bldg. Drain		Storm Bldg. Sewer	
51	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
San.	Storm	C I	Other	Sewer / Clearwater Dr.	Sewage Sump / Clearwater Sump	C.I.	Other		75		Seepage Pit / Seepage Bed 100 / Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well / Pump / Tank	Nonconforming Existing								

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for:

6 DRILLHOLE

Dia (in)	From (ft)	To (ft.)	Dia. (in)	From (ft.)	To (ft.)
10	Surface	20	6	20	157

7 CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia (in)	Mfg & Method of Assembly	From (ft)	To (ft.)
6	new Black	Surface	157
	API-5120		
	Don-Kuit		

8 GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay Slurry	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Boulders & Gravel	Surface	23
Gravel & Sand	23	48
Clay & Sand	48	86
Sand	86	147
Gravel & Sand	147	154
Gravel	154	157

10 TYPE OF DRILLING MACHINE USED

☒ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air / Water

Well construction completed on 4-6 19 84

11 MISCELLANEOUS DATA

Yield Test: 18 Hrs. at 10 GPM
Depth from surface to normal water level 100 Ft.
Depth of water level when pumping 75 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison at later Date laboratory on _____ 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, scale, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Business Name and Complete Mailing Address: Hartman Well Drilling
19560 W. Lincoln Ave.
New Berlin, Wis. 53151

77

First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER AU 158

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

MAR 12 1992

Property Owner: John Ramm
Telephone Number: (414) 28704178
Mailing Address: JOB; W224 S8425 Industrial Dr.
City: Big Bend
State: WI
Zip Code: 53103
County: Waukesha
County Well Location Permit No.: W
Well Completion Date: 02/28/89 (M M D D Y Y)

68

Well Constructor (Business Name): Hartman WELL Drilling
Registration #: WD 324
Address: 22625 Edgewood Av.
City: Big Bend
State: WI
Zip Code: 53103

N

2. Mark well location in correct 40-acre parcel of section.

N / W / E / S

1. Location (Please type or print using a black pen)
☐ Town ☐ City ☑ Village of Big Bend
Fire # (if available)
Grid or Street Address or Road Name and Number (if available): W224 S8425 Industrial DR.
Subdivision Name: Big Bend Industrial
Lot #: —
Block #: —
Gov't Lot # NW¼ of NW ¼ of SE ¼ of Sec. 13
Section 13 ; T 5 N; R 19 ☑ E ☐ W

3. Well Type
☑ New
☐ Replacement ☐ Reconstruction/Rehabilitation
of well constructed in 19 ____.
Reason for new, reconstructed, replaced, or rehabilitated well?
WATER
☑ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

4. Well serves 1 # of homes and/or Shop
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☑ No
High Capacity Property? ☐ Yes ☑ No

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☑ Yes ☐ No
Well Located in Floodplain? ☐ Yes ☑ No
Distance In Feet From Well To Nearest.

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
5 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
____ 3. Septic or Holding Tank NONE	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
____ 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21 Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector Sewer	____ 23. Other Manure Storage ____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source ____ 24. NO SEPTIC

6. Drillhole Dimensions

Dia (in.)	From (ft.)	To (ft.)
6	surface	58

Method of constructing upper enlarged drillhole. (If applicable ✓ more than one.)
☐ 1. Rotary — Mud Circulation
☑ 2. Rotary — Air
☐ 3 Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia.
Removed? ☐ Yes ☐ No
If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Black PE	surface	58
	ASTM A-53B 19#		
	Sawhill Steel		

Dia. (in.)	screen type and material	From	To

8. Grout or Other Sealing Material
Method ____

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
None Required	surface		

9. Geology

Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
G- Gravel	surface	58

10. Static Water Level
____ ft. above ground level
35 ft. below ground surface

11. Pump Test
Pumping Level 40 ft. below surface
Pumping at 12 GPM for 1½ hours

12. Well Is:
12 in. ☑ Above ☐ Below Grade
Developed? ☑ Yes ☐ No
Disinfected? ☑ Yes ☐ No
Capped? ☑ Yes ☐ No

13. Were all unused, noncomplying, or unsafe wells properly filled with sealant?
☐ Yes ☑ No If no, explain None

14. Signature of Well Constructor ____ Date Signed 7-28-89 SH
Signature of Drill Rig Operator ____ Date Signed SH

Make additional comments on reverse side about geology, etc.

DNR
WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 1-88

MAIL ORIGINAL

157
78

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

JUN 23 1977

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2. LOCATION: SW, NW | ¼ Section: SE | Section: 13 | Township: 5N | Range: 19E

OR – Grid or Street No.: W224 S8425 | Street Name: Industrial Park

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: S.N.S. Partnership

ADDRESS: W224 S8425 Industrial Drive

POST OFFICE: Big Bend, Wis. 53103

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
10										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		not in		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	Not in
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: New Industrial

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8 3/4	Surface	75			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6"	New black steel pipe plain end, welded joints, .280 wall, 18.97 lb. pr. ft. wt. ASTM A53 U.S. Steel Mfgr.	Surface	75

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	75

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	75

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☒ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

Well construction completed on May 19 19 77

11. MISCELLANEOUS DATA

Yield Test: 1½ Hrs. at 15 GPM

Depth from surface to normal water level 33 Ft.

Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on June 2. 1977

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Dennis Porter Sec. Registered Well Driller

Complete Mail Address: EGOFSKE - PORTER DRILLING INC.
RT. 2 BOX 99
MUKWONAGO, WIS. 53149

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State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev 2-79

FEB 5 1987

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City — Name: Big Bend

2. LOCATION: ¼ Section or Gov't Lot: N½, NW, SE, — Section: 13 — Township: 5N — Range: 19E

OR – Grid or Street No.: W224 S8426 — Street or Road Name: Industrial Dr.

AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Tony Chiconis

ADDRESS: W224 S8426 Industrial Dr.

POST OFFICE: Big Bend, Wi. — ZIP CODE: 53103

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
14										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr. / Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
							NI	NI		NI	

Privy	Pet Waste Pit	Pit Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Commercial Building

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8 3/4	Surface	61			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6"	New black steel pipe plain end, welded joints, .280 wall 18.97 lb. per ft. wt. ASTM A53 Gr. B Sumotoma Japan Mfgr.	Surface	61

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	61

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel	Surface	61

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on Dec. 2, 1986

11. MISCELLANEOUS DATA

Yield Test: 1½ Hrs. at 15 GPM

Depth from surface to normal water level 27 Ft.

Depth of water level when pumping 45 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to MADISON – laboratory on FEB-3rd 1987

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Robert Porter, Pres. Registered Well Driller

Business Name and Complete Mailing Address: Egolske-Porter Drilling, Inc. S193 W26420 Maple Mukwonago, Wi. 53149

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WISCONSIN UNIQUE WELL NUMBER **EF763**

Source: GRN - NO DETAIL

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Property Owner: SPECTRUM ILLINOIS ANTHONY CHICONAS
Telephone Number: 414-662-4412

Mailing Address: W224 S8430 INDURTIAL

City: BIG BEND | State: WI | Zip Code: 53103

County of Well Location: 68 WAUKESHA | Co Well Permit No: W | Well Completion Date:

Well Constructor | License # | Facility ID (Public)

Address | Public Well Plan Approval#

City | State | Zip Code | Date Of Approval

Hicap Permanent Well # | Common Well # | Specific Capacity gpm/ft

3. Well Serves: PR — # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? Property?

1. Well Location

T=Town C=City V=Village of

Fire#

Street Address or Road Name and Number: W224 S8430 INDURTIAL DR

Subdivision Name | Lot# | Block #

Gov't Lot or NE 1/4 of NE 1/4 of Section 24 T 5 N;R 19 E

Latitude Deg. 42 Min. 53

Longitude Deg 88 Min. 11

2. Well Type (See item 12 below)

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?

Lat/Long Method

1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain?

Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
	surface	

Upper Enlarged Drillhole / Lower Open Bedrock

-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ in. dia
-- 7. Temp. Outer Casing _ in. dia. ____ depth ft. Removed ?

Other

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)

6. Casing Liner Screen Material, Weight, Specification

Dia. (in.)	Manufacturer & Method of Assembly	From (ft.)	To (ft.)
		surface	

Dia.(in.)	Screen type, material & slot size	From	To

9. Static Water Level

feet ground surface A=Above B=Below

10. Pump Test

Pumping level ft. below surface

Pumping at GP Hrs

11. Well Is: in. Grade A=Above B=Below

Developed?

Disinfected?

Capped?

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller | Date Signed

Initials of Drill Rig Operator (Mandatory unless same as above) | Date Signed

Additonal Comments? Variance Issued?

Owner Sent Label? More Geology?

Batch 81

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE: W.O.# 3923 WELL CONSTRUCTOR'S REPORT
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy
Form 3300-15 Rev 12-76

SEP 22 1980

1 COUNTY: Waukesha
CHECK (✓) ONE: ☐ Town ☐ Village ☒ City
Name: Muskego

2. LOCATION: ¼ Section SW¼ | Section 13 | Township 5N | Range 19 E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No

3 NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Spectrum Mfg. Co.
ADDRESS: P.O.Box 14174
POST OFFICE: West Allis, Wi. 53214

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg Drain C.I.	Storm Bldg Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
10-	–	–	–	–	–	–	–	–	–	–

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
–	–	–	–	–	–	–	–	–	–	not in	not in	–	Seepage Pit – / Seepage Bed – / Seepage Trench –

Privy	Pet Waste Pit	Pit Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
–	–	Well – / Pump – / Tank –		–	–	–	–	–	–	–	–

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)
–	–	–	–	–	– above indicates NONE

5 Well is intended to supply water for: manufacturing building

6 DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	81			

7 CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	std. steel PE new	Surface	81
	18.97 lbs per foot ASTMA-53		
	Sumitomo Metal Industries Ltd.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
bentonite & cuttings	Surface	81

9 FORMATIONS

Kind	From (ft.)	To (ft.)
gravel & clay	Surface	10
gravel & sand	10	65
hardpan	65	72
gravel	72	81

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on July 22 19 80

11 MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 35 GPM
Depth from surface to normal water level 40 Ft.
Depth of water level when pumping 55 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on July 22 19 80

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Richard Berkholtz
Richard Berkholtz. Pres Registered Well Driller

Complete Mail Address
BERKHOLTZ DRILLING COMPANY INC.
1170 Forest Lane, Brookfield, Wi 53005

MAB 9-17-80

82

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

1 COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

MAY 2 0 1981

¼ Section or Gov't Lot ✓ | Section | Township | Range
2 LOCATION: NW, NW SE, | 13 | 5-N | 19-E

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Michael Conn

OR – Grid or Street No: W224 S8445 | Street or Road Name: Industrial Dr. AVE.

ADDRESS: 592 W 23085 Milwaukee Ave.

AND – If available subdivision name, lot & block No

POST OFFICE: Big Bend, Wis. ZIP CODE: 53103

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg Sewer C.I.	Storm Bldg Sewer Other
8			(	P.V.C. 10	None					

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
				None							90			90		

Privy	Pet Waste Pit	Pit Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
						Schedule 80 7-9-81

5. Well is intended to supply water for: Shop & office

6 DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia. (in)	From (ft)	To (ft)
10	Surface	7			
6	7	68			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia (in)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Steel casing 19.45# T & C. New Astm A53 Sumitomo	Surface	68

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft)	To (ft)
Bentonite-Clay & Gravel	Surface	7

9 FORMATIONS

Kind	From (ft.)	To (ft.)
Clay & Gravel	Surface	7
Sand & Gravel	7	67
Gravel	67	68
Gravel came up in The pipe 6 Inches		

10 TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air Water

Well construction completed on May 18, 1981

11 MISCELLANEOUS DATA

Yield Test: 3 Hrs. at 15 GPM

Depth from surface to normal water level 27 Ft.

Depth of water level when pumping 27 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on May 18, 1981

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Daniel J Ackers Registered Well Driller

Business Name and Complete Mailing Address: 10981 W. Forest Home Ave. Hales Corners Wis.

plot G83548

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State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 2-79

DEC 26 1986

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2. LOCATION: ¼ Section or Gov't Lot: SW, NW, SE ✓ | Section: 13 | Township: 5N | Range: 19E

OR – Grid or Street No: W224 S8450 | Street or Road Name: Industrial Dr.

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Galen Bower

ADDRESS: W226 S9455 Big Bend Dr.

POST OFFICE: Big Bend Wi. ZIP CODE: 53103

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg Sewer		Floor Drain Connected To		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I	Other
4										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit	
				Clearwater Dr.	Clearwater Sump				80		Seepage Bed 95	
											Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: Commercial Building

6 DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia (in)	From (ft.)	To (ft)
8 3/4	Surface	42			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification Mfg & Method of Assembly

Dia (in)		From (ft)	To (ft)
6"	New black steel pipe plain end, welded joints, .280 wall 18.97 lb. per ft. wt. ASTM A53 Gr.B Sumotoma Japan Mfgr.	Surface	42

8 GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	42

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel	Surface	42

10 TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on Dec. 1, 1986

11. MISCELLANEOUS DATA

Yield Test: 1½ Hrs. at 15 GPM

Depth from surface to normal water level 27 Ft.

Depth of water level when pumping 35 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to INTERCITY MILG CONST. ELK. laboratory on 12-23-86 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Robert Porter Jr. Registered Well Driller

Business Name and Complete Mailing Address:
Egofske-Porter Drilling, Inc.
S103 W26420 Maple
Mukwonago, Wi. 53149

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State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE.
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev 2-79

1 COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2. LOCATION: ¼ Section or Gov't Lot ✓ NW, NW SE | Section 13 | Township 5-N | Range 19-E

OR – Grid or Street No: W 234 S 8455 | Street or Road Name: Industrial Dr. AVE

AND – If available subdivision name, lot & block No:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Clyde Gehring

ADDRESS: 6025 So. 22nd Street

POST OFFICE: Milwaukee Wi | ZIP CODE: 53221

4 Distance in feet from well to nearest: (Record answer in appropriate block)	Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I	Storm Bldg. Drain Other	Storm Bldg Sewer C.I.	Storm Bldg Sewer Other
	6			9		9					

Street Sewer San.	Street Sewer Storm	Other Sewers C.I	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
				Clearwater Dr.	None Clearwater Sump				120		Seepage Pit; Seepage Bed 130; Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well; Pump; Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only; Concrete Floor and Partial Concrete Walls	Other (Describe)

5 Well is intended to supply water for: Repair Shop

6 DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	7			
6	7	162			

7 CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	steel Casing 19.45 # T & C New Astm A120 Hyundai	Surface	152

8 GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry	Surface	7

9 FORMATIONS

Kind	From (ft.)	To (ft.)
Clay & Gravel	Surface	7
Sand & Gravel	7	68
Sand	68	94
Sandy Clay	94	135
Hard Pan	135	152
Lime Rock	152	162

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool; ☐ Rotary-air w/drilling mud; ☐ Rotary-w/drilling mud; ☐ Rotary-hammer w/drilling mud & air; ☐ Rotary-hammer & air; ☐ Reverse Rotary; ☐ Jetting with: ☐ Air ☐ Water

Well construction completed on October 19, 1981

11. MISCELLANEOUS DATA

Yield Test: 3 Hrs. at 15 GPM

Depth from surface to normal water level 30 Ft.

Depth of water level when pumping 30 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on October 19 1981

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: David J Baker — Registered Well Driller

Business Name and Complete Mailing Address: 10981 W. Forest Home Ave. Hales Corners, Wis.

85

MAR 16 1977

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15
Rev. 10-75

1. COUNTY: WAUKESHA
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: BIG BEND

2. LOCATION: ✓SW,NW ¼ Section: SE Section: 13 Township: 5N Range: 19E
OR – Grid or Street No: 8470 Street Name: SO. INDUST
AND – If available subdivision name, lot & block No:

3 NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
MARY KOVIC
ADDRESS: 2320 SO. LOMBARDY, LA.
POST OFFICE: NEW BERLIN WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I	Sanitary Bldg. Sewer Other	Floor Drain Connected To C.I Sewer	Floor Drain Connected To Other Sewer	Storm Bldg Drain C.I	Storm Bldg Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
10	—	—	60	—	75	—	—	—	—	—

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
—	—	—	—			20		—	—	—	75	—	Seepage Pit Seepage Bed 125' Seepage Trench

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
—	—	Well Pump X Tank	—	—	—	—	—	—	—	—

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)
—	—	—	—	—	—

5. Well is intended to supply water for: WAREHOUSE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6 1/8	25	222

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification & Method of Assembly

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
7	NEW STEEL BLK.	Surface	147
	H.C. #216		
	ASTM A-120		
	W.S.P.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
CLAY SLURRY	Surface	25

9 FORMATIONS

Kind	From (ft.)	To (ft.)
STONY CLAY	Surface	70
SAND	70	120
HARDPAN	120	147
LIME STONE	147	222

10 TYPE OF DRILLING MACHINE USED

☒ Cable Tool	☐ Rotary-hammer w/drilling mud & air	☐ Jetting with Air Water
☐ Rotary-air w/drilling mud	☐ Rotary-hammer & air	
☐ Rotary-w/drilling mud	☐ Reverse Rotary	

Well construction completed on: March 15 1977

11. MISCELLANEOUS DATA
Yield Test: 18 Hrs. at 10 GPM
Depth from surface to normal water level: 60 Ft.
Depth of water level when pumping: 140 Ft. Stabilized ☒ Yes ☐ No

Well is terminated: 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to: Madison, Wis. laboratory on: March 15 1977

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature
Henry Hartman Registered Well Driller

Complete Mail Address
5100 N. 56 ST. MILWAUKEE WIS.

plot 683547

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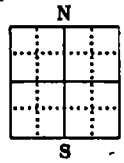
First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER AU 106

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

APR 5 1989

Property Owner: K.W. Engel — Telephone Number: (414) 258-2381
Mailing Address: W224 S8480 Industrial Dr.
City: Bigbend — State: Wis. — Zip Code: 53103
County: Waukesha 68 — County Well Location Permit No.: W — Well Completion Date: 04/12/88 (MM DD YY)



Well Constructor (Business Name): Hartman Well Drilling — Registration #: WD 324
Address: 4853 N. 65th. ST.
City: Milwaukee — State: Wis. — Zip Code: 53218

2. Mark well location in correct 40-acre parcel of section.

N / W / E / S

1. Location (Please type or print using a black pen)
☒ Town ☐ City ☐ Village of Vernon BP — Fire # (if available)
Grid or Street Address or Road Name and Number (if available): W224 S8480 Industrial Dr.
Subdivision Name — Lot # — Block #
Gov't Lot # SW of NW ¼ of SE ¼ of Section 13; T 5 N; R 19 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction/Rehabilitation
of well constructed in 19 ____.
Reason for new, reconstructed, replaced, or rehabilitated well?
☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

4. Well serves 1 # of homes and/or ____ (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☐ Yes ☐ No
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest: BK

____	1. Landfill	15	9. Downspout/Yard Hydrant	____	17. Wastewater Sump
10	2. Building Overhang	____	10. Privy	____	18. Paved Animal Barn Pen
50	3. Septic or Holding Tank	____	11. Foundation Drain to Clearwater	____	19. Animal Yard or Shelter
75	4. Sewage Absorption Unit	____	12. Foundation Drain to Sewer	____	20. Silo — Type ____
____	5. Nonconforming Pit	____	13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____	21. Barn Gutter
____	6. Buried Home Heating Oil Tank	____	14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____	7. Buried Petroleum Tank	____	15. Collector Sewer	____	23. Other Manure Storage ____ Other NR 112 Waste Source
____	8. Shoreline/Swimming Pool	____	16. Clearwater Sump	____	24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	135

Method of constructing upper enlarged drillhole. (If applicable ✓ more than one.)
☐ 1. Rotary — Mud Circulation
☒ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

9. Geology

Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
Gravel	surface	135

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	new Black ASTM-453	surface	135
	P.E. 19#		
	Summotte		

Dia. (in.)	screen type and material	From	To

10. Static Water Level
____ ft. above ground level
23 ft. below ground surface

11. Pump Test
Pumping Level 40 ft. below surface
Pumping at 20 GPM for 12 hours

12. Well Is: 12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

8. Grout or Other Sealing Material
Method ____

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
None Required	surface		

13. Were all unused, noncomplying, or unsafe wells properly filled with sealant? ☒ Yes ☐ No If no, explain ____

14. Signature of Well Constructor — Date Signed
Signature of Drill Rig Operator SH — Date Signed 4-12-88

Make additional comments on reverse side about geology, etc.

DNR WGNHS ORIGINAL

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 1-88

87

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev 12-76

JAN 19 1978

1 COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2 LOCATION: SW, NW ¼ Section SE | Section 13 | Township 5N | Range 19E

OR – Grid or Street No: W224 S8485 | Street Name: Industrial Drive

AND – If available subdivision name, lot & block No: Big Bend

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: A A Pallets

ADDRESS: W147 S7545 Kathryn Court

POST OFFICE: Muskego, Wi. 53150

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I	Sanitary Bldg. Drain Other	Sanitary Bldg Sewer C.I	Sanitary Bldg Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
8			50							

Street Sewer San	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to Sewer	Sewage Sump	Clearwater Dr	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit Seepage Pit	Seepage Bed	Seepage Trench
										none	80			90	

Privy	Pet Waste Pit	Pit Nonconforming Existing Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Pallet Factory Commercial

6. DRILLHOLE

Dia. (in)	From (ft.)	To (ft.)	Dia. (in.)	From (ft)	To (ft.)
8 3/4	Surface	73			

7 CASING, LINER, CURBING AND SCREEN

Dia. (in)	Material, Weight, Specification & Method of Assembly	From (ft)	To (ft)
6"	New black steel pipe plain end, welded joints, .280 wall, 18.97 lb., pr.ft. wt., ASTM A53 U.S. Steel Mfgr.	Surface	73
2'	#25 slot stainless steel Johnson screen, w/1 x5" nipple, lead packer & plug	72	75

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft)
Bentonite & Cuttings	Surface	73

9 FORMATIONS

Kind	From (ft)	To (ft.)
Clay	Surface	2
Sand & Gravel	2	41
Clay	41	48
Sand & Gravel	48	75

10 TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on Dec. 28 1977

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11 MISCELLANEOUS DATA

Yield Test: 1½ Hrs. at 15 GPM

Depth from surface to normal water level 30 Ft.

Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on Jan. 17 1978

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Dennis Porter Sec. Registered Well Driller

Complete Mail Address: [illegible] Muskego, Wis. 53149

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State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE: JAN 19 1977

White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15
Rev 10-75

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City — Name: Big Bend

2. LOCATION: SW, NW, ¼ Section: SE — Section: 13 — Township: 5N — Range: 19E

OR – Grid or Street No.: W224 S8490 — Street Name: Industrial Dr.

AND – If available subdivision name, lot & block No: Lot 1, Blk.3

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Network Construction

ADDRESS: 15710 W. Greenfield Avenue

POST OFFICE: Brookfield, Wi 53005

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
12	-	-	-	-	-	-	-	-	-	-

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench
-	-	-	-	-	-	-	-	-	-	-	-	-	all none

Privy	Pet Waste Pit	Pit Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
-	-	all none	-	-	-	-	-	-	-	-

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)
-	-	-	-	-	-

5. Well is intended to supply water for: Private Residence

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface		160		

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	PE New US Steel 18.97# ft. ASTM-A-53	Surface	134

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Boulders	Surface	31
Sand & Clay	31	70
Clay	70	113
Clay & Gravel	113	130
Gravel	130	134
Rock (Limestone)	134	160

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air 11 ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on October 27, 1976

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 3 Hrs. at 20 GPM

Depth from surface to normal water level 40 Ft.

Depth of water level when pumping 60 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on December 7, 1976

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Emanuel Burgarino — Emanuel Burgarino, Registered Well Driller

Complete Mail Address: 1714 E. Howard Avenue, Milw., Wi

89

OCT 22 1980

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev 12-76

1. COUNTY: Waukesha
CHECK (✓) ONE: ☐ Town ☒ Village ☐ City
Name: Big Bend

2. LOCATION: ¼ Section ✓ SW, NW, SE; Section: Sec 13; Township: 5N; Range: 19E
OR – Grid or Street No.: ✓ W224 S8495
Street Name: Industrial Ave.
AND – If available subdivision name, lot & block No

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Custom Railing
ADDRESS: W224 S8505 Industrail Drive
POST OFFICE: Big Bend

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg Drain C.I.	Storm Bldg Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
45										

Street Sewer San	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench
											50		65		

Privy	Pet Waste Pit	Pit Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: commercial

6. DRILLHOLE

Dia (in)	From (ft)	To (ft)	Dia (in.)	From (ft)	To (ft)
10	Surface	20	6	20	162

7. CASING, LINER, CURBING AND SCREEN

Dia. (in)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft)
6	black steel pipe	Surface	
	wwelded joints		
	18.97 lb.ASTM A53		
	Valley steel		135

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft)	To (ft)
drilling mud	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft)
gravle	Surface	30
sand	30	93
stoney clay	93	135
limestone	135	162

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air
☐ Rotary-w/drilling mud ☐ Reverse Rotary ☐ Water

Well construction completed on 10-15 19 80

11. MISCELLANEOUS DATA
Yield Test: 5 Hrs. at 10 GPM
Depth from surface to normal water level 40 Ft.
Depth of water level when pumping 81 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 10-16 19 80

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Richard Boschi Registered Well Driller

Complete Mail Address: 12665 W. Lisbon Rd. Brookfield, Wis.53005

90

OCT 22 1980

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev 12-76

1 COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Big Bend

2 LOCATION: ¼ Section: SW,NW,SE ✓ | Section: Sec 13 | Township: 5N | Range: 19E

OR – Grid or Street No.: W224 S8505 ✓ | Street Name: Industrial Ave.

AND – If available subdivision name, lot & block No

3 NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Custom Railing

ADDRESS: W224 S8505 Industrial Ave.

POST OFFICE: Big Bend

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain		Sanitary Bldg Sewer		Floor Drain Connected To		Storm Bldg Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I	Other	C.I Sewer	Other Sewer	C.I.	Other	C.I.	Other
50										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I	Other		not	in	Seepage Pit
				Clearwater Dr.	Clearwater Sump						Seepage Bed
											Seepage Trench

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pan	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: commercial

6 DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia (in)	From (ft.)	To (ft)
10	Surface	20	6	20	200

7. CASING, LINER, CURBING AND SCREEN

Dia (in)	Material, Weight, Specification & Method of Assembly	From (ft)	To (ft)
6	black steel pipe	Surface	
	welded joints		
	18.97 lb. ASTM A53		
	Valley steel		134

8 GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft)
drilling mud	Surface	20

9. FORMATIONS

Kind	From (ft)	To (ft)
gravel	Surface	30
sand	30	80
stoney clay	80	134
limestone	134	200

10 TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 10-17 19 80

11. MISCELLANEOUS DATA

Yield Test: 4 Hrs. at 10 GPM

Depth from surface to normal water level 43 Ft.

Depth of water level when pumping 49 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 10-18 19 80

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Richard Borski Registered Well Driller

Complete Mail Address: 12665 W. Lisbon Rd. Brookfield, Wis. 53005

91

First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER **AU 150**

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

MAR 12 1992

Property Owner: Big Bend Commercial Rental
Telephone Number:
Mailing Address: W8535 Industrial Dr.
City: Big Bend
State: WI
Zip Code: 53103
County: Waukesha
County Well Location Permit No.: W
Well Completion Date: 05/01/89 (M M D D Y Y)

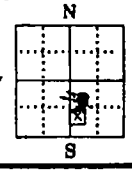
68

Well Constructor (Business Name): Hartman WEll Drilling
Registration #: WD 324
Address: 22625 Edgewood Av.
City: Big Bend
State: Wis.
Zip Code: 53103

N

2. Mark well location in correct 40-acre parcel of section.

N / W / E / S



1. Location (Please type or print using a black pen.)
☐ Town ☐ City ☒ Village of Big Bend
Fire # (if available): —
Grid or Street Address or Road Name and Number (if available): W224 S8535 Industrial DR.
Subdivision Name: Big Bend Industrial Park
Lot #: —
Block #: —
Gov't Lot #: — or NW ¼ of SE ¼ of NW, SW, SE, of
Section 13; T 5 N; R 19 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction/Rehabilitation
of well constructed in 19 ____.
Reason for new, reconstructed, replaced, or rehabilitated well?
water
☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

4. Well serves 1 # of homes and/or Shop
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____	1. Landfill	—	9. Downspout/Yard Hydrant	—	17. Wastewater Sump
5	2. Building Overhang	____	10. Privy	____	18. Paved Animal Barn Pen
60	3. Septic or Holding Tank	____	11. Foundation Drain to Clearwater	____	19. Animal Yard or Shelter
70	4. Sewage Absorption Unit	____	12. Foundation Drain to Sewer	____	20. Silo — Type ____
____	5. Nonconforming Pit	____	13 Building Drain ☐ Cast Iron or Plastic ☐ Other	____	21. Barn Gutter
____	6 Buried Home Heating Oil Tank	____	14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____	7. Buried Petroleum Tank	____	15. Collector Sewer	____	23. Other Manure Storage ____
____	8. Shoreline/Swimming Pool	—	16. Clearwater Sump	____	24. Other NR 112 Waste Source ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	145

Method of constructing upper enlarged drillhole. (If applicable ✓ more than one.)
☐ 1. Rotary — Mud Circulation
☒ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia.
Removed? ☐ Yes ☐ No
If no, explain ____
☐ 7. Other ____

9. Geology

	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
G	Gravel	surface	117
L	Limestone	117	145

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Block P.E.	surface	117
	ASTM A53-B 19#		
	Saw hill Steel		

Dia. (in.)	screen type and material	From	To

10. Static Water Level
____ ft. above ground level
40 ft. below ground surface

11. Pump Test
Pumping Level 80 ft. below surface
Pumping at 20 GPM for 18 hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

8. Grout or Other Sealing Material
Method ____

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
None Required	surface		

13. Were all unused, noncomplying, or unsafe wells properly filled with sealant?
☐ Yes ☒ No If no, explain None

14. Signature of Well Constructor: [signature] Date Signed 5-1-89 SH
Signature of Drill Rig Operator: [signature] Date Signed SH

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 1-88

157

92

DEC 16 1974

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Waukesha

CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Vernon

2. LOCATION – ¼ Section: NW SW, SE, | Section: 13 | Township: 5-N | Range: 19-E

OR – Grid or street no: W224 S8555 | Street name: Industrial Dr.

AND – If available subdivision name, lot & block no:

3. OWNER AT TIME OF DRILLING: John A. Serigo

ADDRESS: S83W23065 Artesian Ave.

POST OFFICE: Big Bend Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C I.	SANITARY SEWER TILE	FLOOR DRAIN C I	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C I.	WASTE WATER DRAIN TILE
3	[illegible]		25			None		

CLEAR WATER DRAIN C I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		70			85				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for. Storage Building

6. DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia (in.)	From (ft.)	To (ft.)
10	Surface	7			
6	7	160			

7. CASING, LINER, CURBING, AND SCREEN

Dia (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel Casing 19.45# T&C. New	Surface	105

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill Cuttings	Surface	7

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	20
Sand	20	76
Sand & Gravel	70	105
Lime Rock	105	160

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: December 11, 1974

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 12 GPM

Depth from surface to normal water level: 40 ft.

Depth to water level when pumping: 42 ft.

Water sample sent to: Madison — laboratory on: December 11, 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side

SIGNATURE: Daniel J. Lucas — Registered Well Driller

COMPLETE MAIL ADDRESS: 10981 W. Forest Home Ave. Hales Corners, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS
				93

REV 3–71

OCT 8 1974

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCE
Box 450
Madison, Wisconsin 53701

1 COUNTY: Waukesha | CHECK ONE: ☐ Town ☒ Village ☐ City | NAME: Big Bend

2. LOCATION – ¼ Section: ¼ NW, SW, SE | Section: 13 | Township: 5N | Range: 19E

OR – Grid or street no: 58560 W224 | Street name: Industrial Ave.

AND – If available subdivision name, lot & block no:

3. OWNER AT TIME OF DRILLING: Norman Noll

ADDRESS: 20451 W. Burton Rd.

POST OFFICE: New Berlin

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5						None		

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		65			65				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Beverage Plant.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	180

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	19.45 lb. T.C.	Surface	126
	Black iron		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel & cobblestones	Surface	35
Gravel	35	55
Muck sand & clay	55	85
Hardpan	85	126
Limestone (water bearing)	126	180

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay (slurry)	Surface	20

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: 10/3 19 74

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 12 GPM

Depth from surface to normal water level: 42 ft.

Depth to water level when pumping: 61 ft.

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to: Madison laboratory on: 10/3 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Kenneth J. Sweeney
Registered Well Driller

COMPLETE MAIL ADDRESS: 11221 W. Martin Rd. Franklin

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS.	CONFIRMED	REMARKS
				94

REV 3–71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 1[illegible]

WK-4211-D

DEC 5 1979

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City — Name: Big Bend

2. LOCATION: W½, SW — ¼ Section: SE — Section: 13 — Township: 5N — Range: 19-E

OR – Grid or Street No.: W224 S8565 — Street Name: Industral Lane

AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Leland Vertz

ADDRESS: S92W 22480 Henneberry Ave

POST OFFICE: Big Bend Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
5						CI 25				

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr.	Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench
				None					50		60

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Office and warehouse

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	8			
6	8	165			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	steel Casing 19.45# T&C. New Astm A53	Surface	114
	NKK		114

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill Cuttings	Surface	8

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay & Gravel	Surface	8
Sand	8	50
Sand & Gravel	50	83
Hard Pan	83	114
Lime Rock	114	165

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on November 19, 1979

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 4 Hrs. at 12 GPM

Depth from surface to normal water level 44 Ft.

Depth of water level when pumping 44 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on November 19, 1979

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: David J. [illegible] Registered Well Driller

Complete Mail Address: 10881 W. Forest Home Ave. Hales Corners, Wis.

95

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev 2-79

MAY 17 1983

1 COUNTY Waukesha

CHECK (✓) ONE: ☐ Town ☑ Village ☐ City Name Big Bend

2. LOCATION: ¼ Section or Gov't. Lot ✓ W½, SW, SE | Section 13 | Township 5N | Range 19E

OR – Grid or Street No. W224 S 8575 | Street or Road Name Industrial Dr

AND – If available subdivision name, lot & block No

3 NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: KEN KRAL

ADDRESS W224 S 8575 Industrial Dr.

POST OFFICE Big Bend | ZIP CODE 53103

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg. Sewer C.I	Sanitary Bldg. Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg Drain C.I	Storm Bldg Drain Other	Storm Bldg. Sewer C.I	Storm Bldg. Sewer Other
10										

Street Sewer San.	Street Sewer Storm	Other Sewers C I	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
											60			60		

Privy	Pet Waste Pit	Pit Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only	Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Scrap metal Business

6. DRILLHOLE

Dia. (in.)	From (ft)	To (ft.)	Dia (in.)	From (ft.)	To (ft.)
10	Surface	25	6	110	157
6	25	110			

7 CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in)	Mfg & Method of Assembly	From (ft.)	To (ft)
6	New Steel Pipe	Surface	110
	THREADED + COUP.		
	T+C A 120 INTERLAKE		
	6.625 " OD		
	X .280 WALL		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft)
Clay Slurry	Surface	25

9 FORMATIONS

Kind	From (ft)	To (ft)
Clay	Surface	15
Gravel	15	110
Limestone	110	157

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 5-8 1983

11 MISCELLANEOUS DATA

Yield Test: 6 Hrs. at 14 GPM

Depth from surface to normal water level 50 Ft.

Depth of water level when pumping 60 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 5-8 1983

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Ralph Dickinson Registered Well Driller

Business Name and Complete Mailing Address: 6904 N. Tichigan Rd Waterford Wis. 53185

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T5N R19E Sec 13 SE 1/4

STATE OF WISCONSIN

NOV 1 '70

WELL CONSTRUCTOR'S REPORT **DEPARTMENT OF RESOURCE DEVELOPMENT** OCT 22 1970 Wel 6

1. COUNTY: WAUKESHA — CHECK ONE: ☐ Town ☒ Village ☐ City — NAME: BIG BEND — WK-4212-D

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.): W224 I S8580 INDUSTRIAL DR. ROUTE 1 BIG BEND, 53103

3. OWNER AT TIME OF DRILLING: MILWAUKEE CRANE — NC, N½, SW, SE, Sec. 13, T5N R19E

4. OWNER'S COMPLETE MAIL ADDRESS: SAME AS ABOVE

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
17	35				NONE			

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50			OVER 50				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: MACHINE SHOP

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	15			
6	15	145			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	BLK. SMLS. T&C	Surface	121
	W/R&D COUPLINGS		
NEW	VALLEY STEEL		
	19.45		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
ROCK & CLAY SLURRY	Surface	15

10. FORMATIONS

Kind	From (ft.)	To (ft.)
STONEY RED CLAY	Surface	15
SAND	15	80
STONEY BLUE CLAY	80	117
HARD PAN	117	120
POPUS LIME	120	121
SOLID LIME	121	145

Well construction completed on SEPT. 10 1970

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 15 GPM

Depth from surface to normal water level 60 ft.

Depth to water level when pumping 70 ft.

Water sample sent to MADISON laboratory on: OCT. 18 1970

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Leo J Blawat — Registered Well Driller

COMPLETE MAIL ADDRESS: 1731 W. GRANGE AVE – MIL. WIS. 53221

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

97

NOV 3 1975 JAN 1 2 1976

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha
CHECK ONE: ☐ Town ☒ Village ☐ City
NAME: Big Bend

2 LOCATION – ¼ Section: SW SW SE | Section: 13 | Township: 5N | Range: 19E
OR – Grid or street no: W224,S8640 | Street name: Industrial Ave.
AND – If available subdivision name, lot & block no:

3. OWNER AT TIME OF DRILLING: Kenneth A. Priebe
ADDRESS: N52 W34263 Gretzen Dr.
POST OFFICE: Okauchee, Wis 53069

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
5						None		

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		45			50				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: None

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	147

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	19-45# T.C.	Surface	116
	Blackstel		
	new ASTM A53		
	Sumitomo		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Cobblestone drift	Surface	61
Muck sandy clay	61	82
Hardpan	82	116
Limestone (Niagara)	116	147

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 10/28 19 75

11. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 12 GPM
Depth from surface to normal water level 45 ft.
Depth to water level when pumping 45 ft.

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: 10/28 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Kenneth J. Sweeney
Registered Well Driller

COMPLETE MAIL ADDRESS: 11221 W. A. Martin Rd. Franklin

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS
				98

REV. 3–71

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CG 973

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

DEC 8 1989

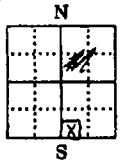
Property Owner: JEFF SOBCZYK — Telephone Number: 662-4024
Mailing Address: W226 So. 8140 Woodview Cave
City: Big Bend — State: Wis — Zip Code: 53103
County of Well Location: Waukesha — County Well Location Permit No.: W — Well Completion Date: 10 28 89 (M M D D Y Y)

68

Well Constructor (Business Name): Hydro Well Drilling — Registration #: 572
Address: 809 So 85 Street
City: West Allis — State: Wis — Zip Code: 53214

2. Mark well location in correct 40-acre parcel of section.

N / W / E / S — X



1. Location (Please type or print using a black pen)
☒ Town ☐ City ☒ Village of Big Bend — Fire # (if available)
Grid or Street Address or Road Name and Number (if available): W224 S8670 Industrial Dr
Subdivision Name — Lot # — Block #
Gov't Lot # ___ or ___ ¼ of ___ ¼ of S½, SW, SE, of
Section 13; T 5 N; R 19 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☐ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

— 1. Landfill	— 9. Downspout/Yard Hydrant	— 17. Wastewater Sump
12 2. Building Overhang	— 10. Privy	— 18. Paved Animal Barn Pen
— 3. Septic or Holding Tank	— 11. Foundation Drain to Clearwater	— 19. Animal Yard or Shelter
— 4. Sewage Absorption Unit	— 12. Foundation Drain to Sewer	— 20. Silo — Type _____
— 5. Nonconforming Pit	— 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	— 21. Barn Gutter
— 6. Buried Home Heating Oil Tank	— 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	— 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
— 7. Buried Petroleum Tank	— 15. Collector or Street Sewer	— 23. Other Manure Storage _____
— 8. Shoreline/Swimming Pool	— 16. Clearwater Sump	Other NR 112 Waste Source — 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	120
6	120	188

Method of constructing upper enlarged drillhole only.
☒ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia
Removed? ☐ Yes ☐ No
If no, explain _____
☐ 7. Other _____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc	From (ft.)	To (ft.)
-CS	Clay and Sand	surface	51
-C-	Clay	51	120
-L-	Limestone	120	188

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	P.E. New Steel	surface	120
	18.97 # per ft		
	ASTM-A-53		
	Grade-B-LTU		
Dia. (in.)	screen type and material	From	To

10. Static Water Level
___ ft. above ground level
25 ft. below ground surface

11. Pump Test
Pumping Level 80 ft. below surface
Pumping at 5 GPM for 85 hours

12. Well Is:
8 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

8. Grout or Other Sealing Material
Method _____

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
Drilling Mud	surface	120	

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☒ Yes ☐ No If no, explain _____

14. Signature of Point Driver or Registered Driller: [signature] — Date Signed: EB 12/1/89
Signature of Drill Rig Operator: [signature] — Date Signed: EB 12/1/89

plot

Make additional comments on reverse side about geology, etc.

DNR WGNHS ORIGINAL

WELL CONSTRUCTION REPORT 683545
Form 3300-77A Rev. 9-88

99

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev 2-79

FEB 25 1986

1. COUNTY: Waukesha
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Vernon

2. LOCATION: ¼ Section or Gov't. Lot: SW, SW, SW, SW | Section: 13 | Township: 5N | Range: 19E
OR – Grid or Street No: W.229 S.8672 | Street or Road Name: Big Bend Dr.
AND – If available subdivision name, lot & block No:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Don Thiessenhusen
ADDRESS: W.226 S.8426 Industrial dr.
POST OFFICE: Big Bend, Wi. ZIP CODE: 53103

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg Sewer C.I	Storm Bldg Sewer Other
10	20									

Street Sewer San.	Street Sewer Storm	Other Sewers C.I	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
											40		Seepage Pit; Seepage Bed 60; Seepage Trench	

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well; Pump; Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only; Concrete Floor and Partial Concrete Walls	Other (Describe)

5 Well is intended to supply water for:
Commercial Bldg.

6 DRILLHOLE

Dia. (in.)	From (ft)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	125			
	125	202			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in)	Mfg. & Method of Assembly	From (ft.)	To (ft)
125	New black steel pipe plain end welded joints .280 wall 18.97 lb. pr. ft. wt. ASTM-A53 G-B U.S. Steel Mfgr.	Surface	125

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft)	To (ft)
Neet Cement grout	Surface	125

9. FORMATIONS

Kind	From (ft)	To (ft.)
Gravel	Surface	26
Clay	26	85
Limestone	85	202

W K 2 7 7 5 8

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air Water

Well construction completed on 2/21/ 1986

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 30 GPM
Depth from surface to normal water level 40 Ft.
Depth of water level when pumping 80 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Inter City Milk Control Elkhorn, Wi. laboratory on 2/24/ 1986

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Dennis Porter, Vice Pres. Registered Well Driller

Business Name and Complete Mailing Address:
Egoske-Porter Drilling, Inc.
S103 W26400 MAPLE AVE.
MUKWONAGO, WI 53149

plc 68354

100

OCT 11 1978

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE: SEP 25 1978

White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15
Rev 10–75

1. COUNTY: Waukesha

CHECK (✓) ONE: ☐ Town ☐ Village ☒ City Name: BIG BEND

2. LOCATION: W ½, W ½ | ¼ Section: SE | Section: 13 | Township: 5N | Range: 19E

OR Grid or Street No.: W600 8851 | Street Name: INDUSTRIAL ST

AND – If available subdivision name, lot & block No.: INDUSTRIAL PARK

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mickal Conn

ADDRESS: Box 175

POST OFFICE: Big Bend, Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg Drain C.I.	Sanitary Bldg Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To C.I. Sewer	Floor Drain Connected To Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
4										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to Sewer	Foundation Drain Connected to Sewage Sump	Foundation Drain Connected to Clearwater Dr.	Foundation Drain Connected to Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
													Seepage Pit / Seepage Bed / Seepage Trench

Privy	Pet Waste Pit	Pit Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well / Pump / Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for:

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	74			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New steel pipe	Surface	74
	thread. & coup.		
	ASTM A 53 19.45		
	Interlake, Inc.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	22
Gravel	22	74

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Jetting with Water

Well construction completed on 7/30 19 78

11. MISCELLANEOUS DATA

Yield Test: 24 Hrs. at 5 GPM

Depth from surface to normal water level 20 Ft.

Depth of water level when pumping 22 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 8-29-78 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Ralph R. Dickinson Registered Well Driller

Complete Mail Address: Rt 2 Box 176 Walworth

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JUN 2 1975

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1 COUNTY: Waukesha

CHECK ONE: ☐ Town ☒ Village ☐ City

NAME: Big Bend

2. LOCATION – ¼ Section: W½, W½, SW¼ 45E | Section: 13 | Township: T5N | Range: R19E

OR – Grid or street no | Street name: Industrial Drive

AND – If available subdivision name, lot & block no

3 OWNER AT TIME OF DRILLING: Don Riberdy

ADDRESS: W181 S7801 Valley Drive

POST OFFICE: Muskego, Wis. 53150

4 Distance in feet from well to nearest (Record answer in appropriate block)

BUILDING	SANITARY SEWER C I	SANITARY SEWER TILE	FLOOR DRAIN C I	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C I.	WASTE WATER DRAIN TILE
17								

CLEAR WATER DRAIN C I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		None		None	None				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Industrial Structural Steel Fabrication Building

6. DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia (in.)	From (ft.)	To (ft.)
8 3/4	Surface	108			
6	108	150			

7. CASING, LINER, CURBING, AND SCREEN

Dia (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Black Steel Pipe	Surface	108
	plain end, welded joints,		
	.280 wall, 18.97 lb. pr.		
	ft. wt.		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel	Surface	45
Sand	45	57
Sand & Clay	57	90
Hard Pan	90	107
Limestone	107	150

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & Cuttings	Surface	108

10 TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☒ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on May 28 19 75

11 MISCELLANEOUS DATA

Yield test 1½ Hrs. at 15 GPM

Depth from surface to normal water level 65 ft.

Depth to water level when pumping 85 ft.

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: May 28, 19 75

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Jerris Porter Registered Well Driller

COMPLETE MAIL ADDRESS
Rt. 2, Box 98
Mukwonago, Wis. 53149

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS

REV 3–71

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JAN 2 8 1974

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waukesha
CHECK ONE: [X] Town [ ] Village [ ] City
NAME: Vernon

2. LOCATION – ¼ Section: W½ W½ SE¼ | Section: 13 | Township: T.5N | Range: R.19E.
OR – Grid or street no | Street name
AND – If available subdivision name, lot & block no: Big Bend Industrial Park

3 OWNER AT TIME OF DRILLING: Bill Bronk
ADDRESS: S. 83 W. 22770 Martin Rd.
POST OFFICE: Big Bend Wis.

4. Distance in feet from well to nearest (Record answer in appropriate block)

BUILDING	SANITARY SEWER C I	SANITARY SEWER TILE	FLOOR DRAIN C I	FOUNDATION DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C I	WASTE WATER DRAIN TILE
12			34				34	

CLEAR WATER DRAIN C I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
	1	57		63	63				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Truck Service Shop

6. DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia (in.)	From (ft.)	To (ft.)
8 3/4	Surface	128			
6	128	235			

7. CASING, LINER, CURBING, AND SCREEN

Dia (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Black Steel	Surface	128
	Pipe, .280 Wall		
	Plain end Welded		
	Joints 18.97 lb.		
	per ft. Wt.		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top Soil	Surface	3
Sand & Gravel	3	43
Sand	43	81
Grey Clay	81	127
Lime, Medium Hard (Dry)	127	212
Lime, medium Hard (Water Bearing)	212	235

h K 2 3 4 4 3

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Bentonite & cuttings	Surface	128

10. TYPE OF DRILLING MACHINE USED
[ ] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[X] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on 1 / 24 19 74

11 MISCELLANEOUS DATA
Yield test: 1/4 Hrs. at 15 GPM
Depth from surface to normal water level 75 ft.
Depth to water level when pumping 120 ft

Well is terminated 8 inches [X] above [ ] below final grade
Well disinfected upon completion [X] Yes [ ] No
Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to Madison State Lab. of Hygiene laboratory on: Jan 28 19 74

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side

SIGNATURE: Dennis Porter Registered Well Driller
COMPLETE MAIL ADDRESS: Rt. 2 Box 94 Mukwonago, Wis. 53149

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS	CONFIRMED	REMARKS
				163

REV 3-71