QUARTERLY MONITORING REPORT
ACTIVE TREATMENT SYSTEMS
FIRST QUARTER 2008

AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA

MWH File No. 4050577

Prepared For:

American Chemical Service NPL Site RD/RA Executive Committee
Griffith, Indiana

Prepared By:

MWH Americas, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, Illinois 60604

October 2008

MWH

BUILDING A BETTER WORLD

QUARTERLY MONITORING REPORT FOR ACTIVE TREATMENT SYSTEMS FIRST QUARTER 2008

AMERICAN CHEMICAL SERVICE NPL SITE GRIFFITH, INDIANA

Prepared For:

American Chemical Service NPL Site RD/RA Executive Committee
Griffith, Indiana

Prepared by: _____ October 16, 2008

Chris A. Daly, P.E.
Project Engineer

Date

Approved by: _____ October 16, 2008

Peter Vagt, Ph.D., CPG
Project Manager

Date

TABLE OF CONTENTS

SECTION **PAGE**

ACRONYMS AND ABBREVIATIONS iv

1.0 INTRODUCTION 1

2.0 GWTP COMPLIANCE MONITORING 3

- 2.1 SAMPLING REQUIREMENTS 3
- 2.2 EFFLUENT SAMPLING AND ANALYSES 3
- 2.3 EFFLUENT ANALYTICAL RESULTS 4

3.0 ISVE SYSTEM MONITORING 5

- 3.1 THERMAL OXIDIZER OFF-GAS SAMPLING 5
- 3.2 SAMPLING RESULTS 5
- 3.3 ISVE SYSTEM MONITORING 6
- 3.4 PRODUCT REMOVAL ACTIVITIES 6

4.0 GWTP PROCESS MODIFICATIONS AND REPAIRS 7

- 4.1 GWTP PROCESS MODIFICATIONS 7
- 4.2 GWTP REPAIRS AND MAINTENANCE 7

5.0 ISVE PROCESS MODIFICATIONS AND REPAIRS 8

- 5.1 ISVE PROCESS MODIFICATIONS 8
- 5.2 ISVE REPAIRS AND MAINTENANCE 8

6.0 PGCS AND BWES GAUGING ACTIVITIES 10

7.0 SYSTEM OPERATION 12

8.0 CONCLUSIONS AND RECOMMENDATIONS 13

- 8.1 GWTP OPERATION 13
- 8.2 ISVE OPERATION 13
- 8.3 GROUNDWATER LEVEL MONITORING 14
- 8.4 HEALTH AND SAFETY 14

9.0 REFERENCES 15

TABLES

Table 2.1 Groundwater Treatment System Effluent Discharge Limits
Table 2.2 Summary of Effluent Analytical Results – First Quarter 2008; Groundwater Treatment System
Table 3.1 Thermal Oxidizer 1 Results for Method TO-15 (VOCs) – January 2008
Table 3.2 Thermal Oxidizer 1 Results for Method TO-15 (VOCs) – February 2008
Table 3.3 Thermal Oxidizer 1 Results for Method TO-15 (VOCs) – March 2008
Table 3.4 Thermal Oxidizer 2 Results for Method TO-15 (VOCs) – January 2008
Table 3.5 Thermal Oxidizer 2 Results for Method TO-15 (VOCs) – February 2008
Table 3.6 Thermal Oxidizer 2 Results for Method TO-15 (VOCs) – March 2008
Table 3.7 SBPA and Off-Site ISVE System Results for Method TO-15 (VOCs) –January 2008
Table 3.8 SBPA and Off-Site ISVE System Results for Method TO-15 (VOCs) - February 2008
Table 3.9 SBPA and Off-Site ISVE System Results for Method TO-15 (VOCs) – March 2008
Table 3.10 Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) – January 2008
Table 3.11 Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) – February 2008
Table 3.12 Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) – March 2008
Table 3.13 Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) – January 2008
Table 3.14 Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) – February 2008
Table 3.15 Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) – March 2008
Table 3.16 SBPA and Off-Site ISVE System Results for Method TO-13 (SVOCs) – January 2008
Table 3.17 SBPA and Off-Site ISVE System Results for Method TO-13 (SVOCs) – February 2008
Table 3.18 SBPA and Off-Site ISVE System Results for Method TO-13 (SVOCs) – March 2008
Table 3.19 Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data – First Quarter 2008
Table 3.20 Off-Site In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data – First Quarter 2008
Table 3.21 SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data – First Quarter 2008
Table 3.22 SBPA In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data – First Quarter 2008
Table 6.1 Water Table Elevations Across the Barrier Wall and Near the PGCS – First Quarter 2008
Table 6.2 Water Levels Inside Barrier Wall – First Quarter 2008

FIGURES

Figure 3.1 VOC Removal Rate
Figure 3.2 Total VOCs Removed
Figure 6.1 Upper Aquifer Water Table Contour Map – March 2008
Figure 6.2 Water Table Elevations Across the Barrier Wall – March 2008
Figure 6.3 Groundwater Level Measuring Locations
Figure 6.4 Water Level Trends Inside the Barrier Wall (Still Bottoms Pond Area)
Figure 6.5 Water Level Trends Inside the Barrier Wall (Off-Site Area)

APPENDICES

Appendix A Effluent Analytical Data
- January 7, 2008 Compliance Sample – Laboratory Results
- February 15, 2008 Compliance Sample – Laboratory Results
- March 6, 2008 Compliance Sample – Laboratory Results

Appendix B Thermal Oxidizer Off-Gas Analytical Data
- January 10, 2008 Off-Gas Sample Laboratory Results
- February 28, 2008 Off-Gas Sample Laboratory Results
- March 27, 2008 Off-Gas Sample Laboratory Results

ACRONYMS AND ABBREVIATIONS

AS	Air Sparge
AMSL	Above Mean Sea Level
BOD	Biological Oxygen Demand
BW	Barrier Wall
BWES	Barrier Wall Extraction System
cfm	cubic feet per minute
DL	Detection Limit
DPE	Dual Phase Extraction
GAC	Granular Activated Carbon
Global	Global Technologies
GWTP	Groundwater Treatment Plant
"Hg	Inches of mercury
"H_2O	Inches of water
IDEM	Indiana Department of Environmental Management
K-P	Kapica Pazmey
lb/hr	Pounds per hour
LDC	Laboratory Data Consultants
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NC	Not Calculated
ND	Not Detected
NE	No Effluent Limit Established
NS	Not Sampled
OFCA	Off-Site Containment Area
PCBs	Polychlorinated Biphenyls
ppm	Parts per million
PGCS	Perimeter Groundwater Containment System
PSVP	Performance Standard Verification Plan
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
SBPA	Still Bottoms Pond Area
SVOC	Semi-Volatile Organic Compounds
T-102	Aeration Equalization Tank (Tank – 102)
TOC	Top of Casing
TOIC	Top of Inner Casing
TOSG	Top of Staff Gauge
TSS	Total Suspended Solids
µg	Micrograms
µg/L	Micrograms per liter
U.S. EPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

MWH Americas, Inc. (MWH), on behalf of the American Chemical Service (ACS) Executive Committee, started up the on-site groundwater treatment system at the ACS National Priorities List (NPL) Site (ACS Site) in Griffith, Indiana on March 13, 1997. The groundwater treatment plant (GWTP) system was designed to treat groundwater from the Perimeter Groundwater Containment System (PGCS) and the Barrier Wall Extraction System (BWES). The original treatment consisted of a phase-separator for oil and free product removal, equalization tanks, an UV oxidation unit for destruction of organic constituents, and an air stripper to remove methylene chloride and other organics. The treatment also included a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater before it was released to the west of the Site.

In 2001, an activated sludge treatment unit was added to the process to reduce the volatile and semivolatile organic compounds (VOCs and SVOCs) in the collected groundwater. The activated sludge treatment process also reduces the amount of activated carbon required to treat the water. An aerated equalization tank was also added to the GWTP in 2001 to remove VOCs from the collected groundwater, oxidize metals to increase metals removal efficiency in the chemical precipitation unit, and equalize groundwater flow through the GWTP. The activated sludge system and aeration tank have been fully integrated into the process along with the other upgrade components. Startup and optimization of the catalytic oxidizer/scrubber air treatment unit was also conducted during 2001.

The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system, in accordance with Agency approvals.

Operation of the In-situ Soil Vapor Extraction (ISVE) system for the Off-Site Containment Area (OFCA) and the Kapica-Pazmey (K-P) Area began on May 1, 2002. Operation of the ISVE system for the Still Bottoms Pond Area (SBPA) began in July 2003. The ISVE systems were designed to remove volatile and semi-volatile compounds from the subsurface media.

The Off-Site Area ISVE system consists of 42 ISVE wells, 3 air sparge wells, ISVE and air sparge blower systems, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. Protocols and goals for the phased startup of the Off-Site System as defined in the Final Remedy (Montgomery Watson, 1999) were followed. In 2004, an additional blower unit was added to the Off-Site Area ISVE system to more effectively meet the design objectives of the system. The additional blower increased the capacity of the Off-Site ISVE system from 1,000 to 2,000 cubic feet per minute (cfm).

The SBPA ISVE system consists of 25 ISVE wells, 21 dual-phase extraction (DPE) wells, 6 air sparge wells, ISVE and air sparge blower systems, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. During the first 12 months of system operation, the performance of the ISVE system was evaluated. Based on this evaluation, the

SBPA ISVE system was enhanced in accordance with the United States Environmental Protection Agency (U.S. EPA) and Indiana Department of Environmental Management (IDEM) approval by reconfiguring 18 of the ISVE wells to allow injection of air. Air for the injection wells is directed from blower ME-102/103 at the GWTP to the SBPA ISVE blower shed. The air injection system, which consists of three groups of five injection wells, began operation in December 2005. The air injection is rotated among the three well groups on a monthly basis. Only one well group is operated at a time.

This report summarizes GWTP effluent analytical data and thermal oxidizer off-gas analytical data, ISVE process monitoring data, and water level gauging data collected from January 2008 through March 2008. The report also details modifications and upgrades that were made to the active treatment systems during the reporting period.

2.0 GWTP COMPLIANCE MONITORING

2.1 SAMPLING REQUIREMENTS

Effluent samples are collected on a regular schedule from the treatment system to demonstrate compliance with the discharge limits (Table 2.1) established by the Indiana Department of Environmental Management (IDEM) and the United States Environmental Protection Agency (U.S. EPA). The approved Performance Standard Verification Plan for the PGCS (PSVP) (Montgomery Watson, July 1997) requires quarterly effluent sampling for biochemical oxygen demand (BOD), total suspended solids (TSS), SVOCs, metals, and polychlorinated biphenyls (PCBs) in the system, and monthly effluent sampling for pH and VOCs, as tabulated below. In accordance with the PSVP, a full analysis effluent compliance sample was collected during January 2008 and analyzed for all of the analytes listed above. During February and March 2008, the monthly effluent compliance samples were analyzed for VOCs and pH only.

Sampling and analyses were performed in accordance with the approved Quality Assurance Project Plan (QAPP) (Montgomery Watson Harza, November 2001) during the reporting period. Quality control measures were also instituted in accordance with the PSVP. The following table and paragraphs present details on sampling and analyses and also summarize the analytical data for the treatment system effluent.

Sampling Frequency Schedule – Groundwater Treatment System

Analytes	Cumulative Time From Startup*	Frequency
Flowrate	–	Continuous
BOD, TSS, SVOCs and Metals	181 days onward	Once per quarter
VOCs and pH	31 days onward	Once per month
PCBs	181 days onward	Once per quarter
PCBs in Sediment (one location)	–	Once per year

*Note: System operation began on March 13, 1997

2.2 EFFLUENT SAMPLING AND ANALYSES

Effluent samples were collected each month during the first quarter of 2008. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

January 7, 2008	Full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs, pentachlorophenol, and PCBs)
February 15, 2008	pH and VOCs
March 6, 2008	pH and VOCs

The above samples were collected directly from a sampling port on the effluent line of the treatment system. The samples were placed in contaminant-free containers, in accordance with the U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers (U.S. EPA, 1992). Appropriate sample containers and preservatives, as specified in the QAPP, were used to collect and preserve the samples. Following sample collection, the temperature of the sample containers was maintained at or below 4° C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories. In accordance with the approved QAPP, the effluent water samples were analyzed for the following parameters by the following analytical methods:

Parameter	Analytical Method
VOCs	SW-846 8260B
SVOCs	SW-846 8270C
Pentachlorophenol	SW-846 8270C and SIM
Pesticides/PCBs	EPA 608/SW-846 8081/8082
Metals (Excluding Mercury)	
General Water Quality	SW-846 6010
Parameters (TSS and BOD-5)	EPA 160.2 and 405.1
Mercury	SW-846 7470
pH	EPA 150.1

2.3 EFFLUENT ANALYTICAL RESULTS

2.3.1 GWTP Effluent Samples

The GWTP effluent monitoring data, summarized in Table 2.2, verify that the system effluent was compliant with the discharge limits summarized in Table 2.1. No effluent exceedences were reported in the January, February, or March samples.

Microbac Laboratory of Merrillville, Indiana performed the analysis of the samples. Laboratory Data Consultants (LDC) of Carlsbad, California performed third party data validation in accordance with the U.S. EPA National Functional Guidelines for Organic/Inorganic Data Review (U.S. EPA, February 1994 and October 1999). Validation qualifiers are listed in Table 2.2 and are written in the margin of the analytical data sheets provided in Appendix A.

3.0 ISVE SYSTEM MONITORING

3.1 THERMAL OXIDIZER OFF-GAS SAMPLING

During the first quarter of 2008, Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1) was used to treat vapors from the SBPA ISVE system and Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) was used to treat vapors from the Off-Site ISVE system and T-102. Monthly VOC removal rates are illustrated in Figure 3.1 and the total VOCs removed are shown on Figure 3.2. Compliance samples were collected from the thermal oxidizer/scrubber units on January 10th, February 28th, and March 27th.

Influent and effluent off-gas samples were collected directly from sampling ports on the influent pipe to the thermal oxidizer and the discharge stack of the scrubber. One influent sample and one effluent sample were collected. A duplicate influent sample was also collected. The samples were collected to comply with the PSVP and QAPP and in accordance with laboratory guidelines. The VOC samples were collected using a Summa canister and the SVOC samples were collected in sorbent tubes.

Sampling Frequency Schedule – ISVE System

Startup	Weekly for a four week period
Post-Startup	Monthly in accordance with the IDEM Air Permit Equivalency

Following sample collection, the sorbent tubes were placed in coolers and maintained at or below 4°C for shipment. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment plant to the laboratories for extraction and analysis. In accordance with the approved QAPP and addenda, the off-gas samples were analyzed by the following analytical methods:

Parameter	Analytical Method
VOCs	TO-15
SVOCs	TO-13

Per Addendum No. 1 to the QAPP, Microbac Laboratory of Merrillville, Indiana is now the primary analytical laboratory for air analyses for the project. Microbac performs VOC analysis by Method TO-15.

3.2 SAMPLING RESULTS

The influent and effluent off-gas data are collected to verify that the off-gas from both of the thermal oxidizers were less than the IDEM discharge limit of three pounds of VOCs per hour (lbs/hr) and 15 pounds per day (lbs/day) for January, February, and March. The highest VOC discharge rate observed during these sampling events was the February 28, 2008 Therm Ox 2 sample, which was measured at 0.177 pounds per hour or 4.25 pounds per day. Both of

these rates are below the corresponding discharge limits. Therefore, it can be concluded that the ISVE systems are performing well within discharge limits for air emissions. VOC discharge values for Therm Ox 1, Therm Ox 2, and the SBPA and Off-Site ISVE system are presented in Tables 3.1 through 3.9. The analytical data sheets for the compliance samples are provided in Appendix B.

In addition to the off-gas data collected during the first quarter, MWH collected off-gas samples from the Off-Site ISVE system and the SBPA ISVE system influent lines. These samples were collected in order to comply with the PSVP.

Microbac Laboratory of Merrillville, Indiana analyzed all of the vapor samples. The analytical results are summarized in Tables 3.1 through 3.18. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in the tables and are written in the margin of the analytical data sheets provided in Appendix B.

3.3 ISVE SYSTEM MONITORING

Performance monitoring of the ISVE system was conducted in accordance with the PSVP (Montgomery Watson, June 1999). Extracted vapor flow rates and vacuum pressures at individual ISVE wells and headers were measured and recorded on a routine basis. Additionally, VOC concentrations were measured at individual wells and headers using a photoionization detector (PID).

The information collected during performance monitoring is used to evaluate and optimize the ISVE system. Data collected from the Off-Site ISVE system during the first quarter of 2008 are presented in Tables 3.19 and 3.20. Data that were collected from the SBPA ISVE system during the first quarter of 2008 are presented in Tables 3.21 and 3.22.

3.4 PRODUCT REMOVAL ACTIVITIES

No free product removal activities were conducted during the first quarter of 2008 due to adverse weather conditions. Free product removal activities are scheduled to resume during the second quarter of 2008.

4.0 GWTP PROCESS MODIFICATIONS AND REPAIRS

4.1 GWTP PROCESS MODIFICATIONS

No modifications were made to the GWTP during the first quarter of 2008.

4.2 GWTP REPAIRS AND MAINTENANCE

The following maintenance activity was conducted at the GWTP during the first quarter of 2008:

- In January and February, the amount of solids carried from the activated sludge plant apparently was increasing as evidenced by decreased clarity in the water. It was discovered that Tank T-5 (Sludge Holding Tank) was not working as designed because of plugged decant ports. The ports were cleaned and the water clarity is back to normal.

5.0 ISVE PROCESS MODIFICATIONS AND REPAIRS

5.1 ISVE PROCESS MODIFICATIONS

The following modifications were made to the SBPA ISVE system during the first quarter of 2008:

- Three sets of air injection wells ran at the ACS site throughout the first quarter 2008. On January 30, 2008 MWH was on site to switch the air injection wells from Group 3 (SVE-44, SVE-59, SVE-77, SVE-80, and SVE-84) to Group 1 (SVE-50, SVE-54, SVE-73, and SVE-81). Due to maintenance of SVE-79, Group 1 operated with only four air injection wells. Group 1 operated until February 22, 2008 when MWH switched over to Group 2 (SVE-49 and SVE-51). Due to maintenance of SVE-65, SVE-71 and SVE-82, Group 2 operated with only two air injection wells.

- On March 27, 2008, operation of the air injection wells was switched from Group 2 to Group 3 (SVE-44, SVE-59, SVE-77, SVE-80, and SVE-84).

- MWH will continue to rotate among the three groups of air injection wells on a monthly basis.

The following modifications were made to the Off-Site ISVE system during the first quarter of 2008:

- MWH is currently evaluating the Off-Site Area ISVE system to determine if it would be advantageous to shut down one of the extraction blowers. A test was conducted in February to determine if operating the second blower provided any incremental benefit in terms of VOC mass removal. A select number of ISVE wells with historically high VOC levels were activated. Analytical samples were collected, and the VOC mass removal rate was determined to be similar to the rate achieved with two blowers. MWH will conduct further testing in June by operating one blower with a larger number of active ISVE wells.

5.2 ISVE REPAIRS AND MAINTENANCE

The following maintenance activity was conducted on the nanofiltration unit during the first quarter of 2008:

- Thermal Oxidizer 2 continued to shut down occasionally during the reporting period due to high temperatures in the scrubber unit. The main cause of the problem is scaling in the scrubber tower due to the makeup water characteristics. To address the issue, MWH has been working on the nanofiltration unit which provides the feed water to the scrubbers. The vendor who supplied the unit, GE

Water, has been brought to the Site to evaluate the unit and to sample the water supplied to the unit. Results from these samples are being used to perform modifications on the unit.

6.0 PGCS AND BWES GAUGING ACTIVITIES

During the operational time frame of the GWTP in the first quarter of 2008, the PGCS groundwater extraction trenches were operated in "auto" mode. In "auto" mode, the PGCS extraction wells pump continuously unless there is a low water level in individual extraction wells or a high water level in the Aeration Equalization Tank (T-102). This mode is used to control the flowrate through the treatment system, while at the same time creating an inward gradient along the PGCS trench. The GWTP also received influent from the On-Site and Off-Site components of the BWES, the SBPA DPE wells, MW-10C, MW-56, and the Lower Aquifer Pumping System during the first quarter of 2008.

In accordance with the PSVP, a discussion on the effect of the PGCS and BWES on the water table near the Site is presented in each quarterly monitoring report. This section summarizes the groundwater elevations at the Site during January, February, and March 2008. Groundwater elevation measurements were collected throughout the Site on March 24, 2008 as part of the groundwater monitoring program. The groundwater elevations are listed in Table 6.1 and the resulting water table contours outside the barrier wall are shown on Figure 6.1.

The barrier wall was constructed to contain the contaminated zone under the Site and the BWES was installed to extract groundwater from within the barrier wall and dewater the Site for the ISVE system. Nine pairs of piezometers were installed, with one piezometer of each pair on either side of the barrier wall, spaced along the barrier wall alignment. This allows measurement and tracking of water levels in order to document that the barrier wall is serving its designed function.

Table 6.1, BWES Water Level and Piezometer Pairs, presents the groundwater elevations inside and outside the barrier wall on March 24, 2008. The groundwater elevations are plotted on Figure 6.2. The groundwater elevation measurements inside the barrier wall range from 3.82 feet to 8.77 feet lower than levels outside the barrier wall. In general, the data demonstrates that the barrier wall is successfully performing the intended function of isolating and protecting the groundwater outside the barrier wall from the source areas of the Site inside the barrier wall. MWH will continue to collect water level measurements quarterly across the Site as required in the PSVP.

As part of the optimization of the GWTP and BWES upgrades, MWH began active dewatering of the Off-Site Area through increased groundwater pumping rates on September 25, 2001. Active dewatering of the SBPA (On-Site Area) began on February 11, 2003 with the addition of the DPE wells. Water levels were measured throughout the quarter at piezometer locations (P29, P31, P32, P36, and P49) in the On-Site Area and at piezometers (P96, P110, P112, P113, P114, P116, P118) and three air sparge (AS) wells (AS-7, AS-8, and AS-9) in the Off-Site Area. These locations are shown on Figure 6.3. The water level trend data from these piezometers and AS wells for the first quarter of 2008 are depicted graphically on Figures 6.4 and 6.5, which also show the target water elevations for each area. In the SBPA, the target water level is 629 feet amsl. Water

levels in two piezometer locations (P-29 and P-31) have been drawn down to below the bottom of the screens in these wells throughout the first quarter of 2008. Therefore, the depth to water measurements at these locations show straight-line measurements of the bottom of the wells. The other three locations had water levels that varied from approximately 625 feet amsl to 632 feet amsl. These water levels have shown a decreasing trend throughout the first quarter of 2008.

In the Off-Site ISVE area, the target water level is 626 feet amsl. Actual water levels varied from approximately 621 feet amsl to 628 feet amsl. This represents a stable trend in the average water levels from the fourth quarter of 2007. MWH will continue to monitor the water levels in both the SBPA and Off-Site Area to ensure vapor extraction at the ISVE wells is not inhibited.

7.0 SYSTEM OPERATION

The GWTP operated as designed 98 percent of the first quarter of 2008 (based on 2,142 hours of operation out of a total of 2,184 hours). The system drew influent water from the On-Site Area BWES, the Off-Site Area BWES, the PGCS, MW-10C, MW-56, and the Lower Aquifer Pumping System.

The Off-Site Area ISVE system continued to operate as designed 41 percent of the first quarter of 2008 (based on 885 hours of operation out of a total of 2184 hours). The SBPA ISVE system continued to operate as designed 58 percent of the first quarter of 2008 (based on 1,268 hours of operation out of a total of 2,184 hours). A majority of the downtime for the ISVE systems was associated with maintenance and repairs of the thermal oxidizers.

8.0 CONCLUSIONS AND RECOMMENDATIONS

This section provides a summary of the operational status of the active remedial systems at the ACS NPL site for the subject period. Anticipated activities for the upcoming quarter and recommendations for system modifications are also provided.

8.1 GWTP OPERATION

The GWTP continued to operate normally during the first quarter of 2008. No significant modifications were made to the system during the period. MWH continues to perform routine maintenance activities to ensure that the operation of the GWTP is sustained. During the first quarter, maintenance consisted of cleaning the plugged decant ports of Tank T-5 (Sludge Holding Tank) to improve the water clarity from the activated sludge plant.

The GWTP continued to treat water from all available sources. The list of sources was expanded in September 2007 with the completion of the Lower Aquifer Pumping System and the replacement of the pump in MW-10C.

Anticipated maintenance activities at the GWTP during the second quarter of 2008 include a change-out of the carbon from the Granular Activated Carbon (GAC) vessels scheduled for the week of May 25, 2008. In addition, the perimeter groundwater containment system (PGCS) pumps and the dual-phase extraction (DPE) pumps are scheduled to be removed for annual maintenance during the week of May 25, 2008.

8.2 ISVE OPERATION

The ISVE systems continued to operate normally during the first quarter of 2008. As shown in Figure 3.1, the VOC removal rates (in pounds per day) were observed to be within the range previously observed. The operational times of both the systems were decreased primarily due to maintenance issues associated with the thermal oxidizers. MWH will continue to perform O&M services on these units to ensure adequate operational time for the ISVE systems.

MWH is currently evaluating the Off-Site Area ISVE system to determine if it would be advantageous to shut down one of the extraction blowers. A test was conducted in February to determine if operating the second blower provided any incremental benefit in terms of VOC mass removal. A select number of ISVE wells with historically high VOC levels were activated. Analytical samples were collected, and the VOC mass removal rate was determined to be similar to the rate achieved with two blowers. MWH will conduct further testing in June by operating one blower with a larger number of active ISVE wells.

8.3 GROUNDWATER LEVEL MONITORING

As indicated in Section 6.0, the groundwater extraction system continues to successfully perform its intended function of isolating and protecting the groundwater outside the barrier wall from the source areas of the Site inside the barrier walls.

Groundwater level monitoring results during the third quarter of 2007 indicated that levels in both the On-Site and Off-Site Areas had risen above previous minimum levels. MWH evaluated the performance of the extraction trenches and wells to ensure correct operation. An evaluation of the condition of the extraction pumps in the Off-Site Area determined that some of the pumps warranted replacement. Ten of the pumps' motors had malfunctioned and were replaced. Also, the annual maintenance event for the SBPA dual-phase extraction pumps was performed during the third quarter of 2007. Seven of the pumps were extensively cleaned and repaired and two of the pumps were replaced. As a result, groundwater levels throughout the fourth quarter of 2007 and the first quarter of 2008 have continued to show a decreasing trend. Off-Site average water levels are only slightly above the target water level and SBPA average water levels are below the target water level.

8.4 HEALTH AND SAFETY

No health and safety incidents were reported during the first quarter of 2008. MWH continues to perform site activities in accordance with the site Health and Safety Plan and all applicable addendums.

Health and Safety statistics for the ACS Site as of March 31, 2008 are:

- 3,964 consecutive days with no lost time due to an accident or Health and Safety incident.

- 1,656 consecutive days without an incident requiring first aid.

9.0 REFERENCES

1. *Final Remedial Design Report: Final Remedy, ACS NPL Site,* Montgomery Watson, August 1999.

2. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, July 1997.

3. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, June 1999.

4. *Phase I Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, July 1996.

5. *Phase II Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, February 1997.

6. *Quality Assurance Project Plan, ACS NPL Site*, Montgomery Watson Harza, March 2001.

7. *U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers*, United States Environmental Protection Agency, 1992.

8. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* U.S. EPA, February 1994.

9. *Contract Laboratory Program National Functional Guidelines for Organic Data Review,* U.S. EPA, October 1999.

JEF/JDP/CAD/PJV/app
J:\405\0577 ACS\0201 Engr\05770201a135a.doc

TABLES

Table 2.1
Groundwater Treatment System Effluent Discharge Limits
American Chemical Service NPL Site
Griffith, Indiana

Groundwater Quality Parameter	Effluent Standard (Limit)
General Water Quality Parameters	
pH	6 - 9 S.U.
BOD-5	30 mg/L
TSS	30 mg/L
Inorganics	
Arsenic	50 µg/L
Beryllium	NE
Cadmium	4.1 µg/L
Manganese	NE
Mercury[1]	0.02 µg/L (w/DL = 0.64)
Selenium	8.2 µg/L
Thallium	NE
Zinc	411 µg/L
Volatile Organics	
Acetone	6,800 µg/L
Benzene	5 µg/L
2-Butanone	210 µg/L
Chloromethane	NE
1,4 – Dichlorobenzene	NE
1,1 – Dichloroethane	NE
1,2 – Dichloroethene – cis	70 µg/L
Ethylbenzene	34 µg/L
Methylene chloride	5 µg/L
Tetrachloroethene	5 µg/L
Trichloroethene	5 µg/L
Vinyl chloride	2 µg/L
4 – Methyl - 2 – pentanone	15 µg/L
Semi-Volatile Organics	
bis(2 – Chloroethyl) ether	9.6 µg/L
bis(2 – Ethylhexyl) phthalate	6 µg/L
Isophorone	50 µg/L
4 – Methylphenol	34 µg/L
Pentachlorophenol	1 µg/L
PCBs	
PCBs[1]	0.00056 µg/L (w/DL = 0.1 to 0.9)

Notes:

Effluent standards for the Groundwater Treatment Plant were established based on maximum contaminant levels, Indiana water quality effluent limits, or best available treatment technologies. However, laboratory equipment could not read down to the effluent standards for mercury or PCBs. Therefore, the lowest equipment detection limit (or limit range for PCBs) for these compounds were established as their respective effluent standards.

NE = No effluent limit established.

DL = Detection limit

S.U. = Standard pH units

µg/L - micrograms per Liter

Table 2.2
Summary of Effluent Analytical Results - First Quarter 2008
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

Event Date	Month 128 1/7/2008	Month 129 2/15/2008	Month 130 3/6/2008	Effluent Limits	Lab Reporting Limits
pH	6.84 H/	7.00 H/	7.43 H/J	6-9	none
TSS	4.1 /	NS	NS	30	1.0
BOD	2.0 U/	NS	NS	30	2
Arsenic	10 U/	NS	NS	50	10
Beryllium	1.0 U/	NS	NS	NE	1.0
Cadmium	2.0 B/UB	NS	NS	4.1	2.0
Manganese	60 /	NS	NS	NE	2.0
Mercury[1]	0.2 U/	NS	NS	0.02 (w/DL = 0.64)	0.2
Selenium	30 U/	NS	NS	8.2	30
Thallium	50 U/	NS	NS	NE	50
Zinc	20 U/	NS	NS	411	20
Benzene	1.0 U/	1.0 U/	1.0 U/	5	1.0
Acetone	5.0 U/UJ	5.0 U/UJ	4.2 J/	6,800	5.0
2-Butanone	2.0 U/UJ	2.0 U/UJ	2.0 U/	210	2.0
Chloromethane	2.0 U/	1.4 J/	5.8 /	NE	2.0
1,4-Dichlorobenzene	1.0 U/	1.0 U/	1.0 U/	NE	1.0
1,1-Dichloroethane	0.52 J/	1.0 U/	1.0 /	NE	1.0
cis-1,2-Dichloroethene	1.0 U/	1.0 U/	0.77 J/	70	1.0
Ethylbenzene	1.0 U/	1.0 U/	1.0 U/	34	1.0
Methylene chloride	2.0 U/	1.1 J/	1.5 J/	5	2.0
Tetrachloroethene	1.0 U/	1.0 U/	1.0 U/	5	1.0
Trichloroethene	1.0 U/	1.0 U/	1.0 U/	5	1.0
Vinyl chloride	0.73 J/	2.0 U/	0.45 J/	2	2.0
4-Methyl-2-pentanone	1.0 U/UJ	1.0 U/UJ	1.0 U/	15	1.0
bis (2-Chloroethyl) ether	5.1 U/	NS	NS	9.6	5.1
bis(2-Ethylhexyl) - phthalate	5.1 U/	NS	NS	6	5.1
4 - Methylphenol	5.1 U/	NS	NS	34	5.1
Isophorone	5.1 U/	NS	NS	50	5.1
Pentachlorophenol	26 U/UJ	NS	NS	1	26
PCB/Aroclor-1016[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1221[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1232[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1242[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1248[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1254[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51
PCB/Aroclor-1260[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.51

Notes:

Bolded result indicates a exceedence of the discharge limit
pH data is expressed in S.U.
BOD and TSS data is expressed in mg/L
Metals, VOC, SVOC and PCB data is expressed in ug/L
1. Effluent standards for the Groundwater Treatment Plant were established based on maximum contaminant levels, Indiana water quality effluent limits, or best available treatment technologies. However, laboratory equipment could not read down to the effluent standards for mercury or PCBs. Therefore, the lowest equipment detection limit (or limit range for PCBs) for these compounds were established as their respective effluent standards.

ND = Not detected
NS = This analyte was not sampled or analyzed for
NE = No effluent limit established.
DL = Detection limit

Suffix Definitions:

_/ = Data qualifier added by laboratory
/_ = Data qualifier added by data validator
J = Result is detected below the reporting limit and is an estimated concentration
U =Analyte is not detected at or above the indicated concentration
B = Compound is also detected in the blank
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value, however the calibration was out of range. Therefore the concentration is estimated.
H =Analyte was prepared and/or analyzed outside of the analytical method holding time
UB = Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

Table 3.1
Thermal Oxidizer 1 Results for Method TO-15 (VOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	18,000		16,000		45		99.72%	99.75%	99.73%
1,1,2,2-Tetrachloroethane	ppbv	140		ND	U	ND	U/UJ	NC	NC	NC
1,1,2-Trichloroethane	ppbv	25	J	20	J	ND	U/UJ	NC	NC	NC
1,1-Dichloroethane	ppbv	1,400		1,100		18.0		98.36%	98.71%	98.54%
1,1-Dichloroethene	ppbv	73		71		18.00		74.65%	75.34%	75.00%
1,2-Dichloroethane	ppbv	170		140		1.4		99.00%	99.18%	99.09%
1,2-Dichloropropane	ppbv	140		120		ND	U	100.00%	100.00%	100.00%
2-Butanone (Methyl Ethyl Ketone)	ppbv	97	J/B	74	J/UB	12		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	4.6	/J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	880		660		21	/J	NC	NC	NC
Acetone	ppbv	290		230		64	/UB	NC	NC	NC
Benzene	ppbv	1,000		980		82		91.63%	91.80%	91.72%
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U/UJ	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	1,500	/J	1,500	/J	0.82		NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	0.24	J	NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	5.3	/J	NC	NC	NC
Chloroethane	ppbv	83		87		19.0		77.11%	78.16%	77.63%
Chloroform	ppbv	2,300		1,900		5.1		99.73%	99.78%	99.75%
Chloromethane	ppbv	ND	U	ND	U	2.7		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	17,000		16,000	/J	130		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U/UJ	NC	NC	NC
Ethyl Benzene	ppbv	3,400		2,900		50	/J	NC	NC	NC
m,p-Xylene	ppbv	29,000		26,000		230		99.12%	99.21%	99.16%
Methylene Chloride	ppbv	2,700		2,200		55	/B	NC	NC	NC
o-Xylene	ppbv	16,000		14,000		87	/J	NC	NC	NC
Styrene	ppbv	92		72		14	/J	NC	NC	NC
Tetrachloroethene	ppbv	24,000		21,000		110		99.48%	99.54%	99.51%
Toluene	ppbv	24,000		21,000		420		98.00%	98.25%	98.13%
trans-1,2-Dichloroethene	ppbv	73		65		5		92.31%	93.15%	92.73%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U/UJ	NC	NC	NC
Trichloroethene	ppbv	5,300		4,200		40		99.05%	99.25%	99.15%
Vinyl Chloride	ppbv	1,000		870		44		94.94%	95.60%	95.27%
Total	**ppbv**	**148,663**		**131,189**		**1,484.2**		**98.87%**	**99.00%**	**98.94%**
Total	**lb/hr**	**1.959**		**1.629**		**0.017**		**98.96%**	**99.13%**	**99.04%**

Notes:

NC - Not calculated

ND - Non-detect

ppbv - Parts per billion volume

lb/hr - Pounds per hour

Qualifiers:

U - Below reported quantitation limit

J - Result is estimated

UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B - Compound or analyte was positively detected in a sample and in an associated blank.

UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
On-site	Average	100	721
Off-site	Average	68	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

CRS/JEF/JDP/app

J:\405\0577 ACS\0201 Engr\05770201a133.xls\Table 3.1

Table 3.2
Thermal Oxidizer 1 Results for Method TO-15 (VOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	8,800		13,000		56		99.36%	99.57%	99.47%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	0.41	J	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	1,500		2,700		11.0		99.27%	99.59%	99.43%
1,1-Dichloroethene	ppbv	66		55		6.9		87.45%	89.55%	88.50%
1,2-Dichloroethane	ppbv	150		130		1.7		98.69%	98.87%	98.78%
1,2-Dichloropropane	ppbv	120		130		ND	U	100.00%	100.00%	100.00%
2-Butanone (Methyl Ethyl Ketone)	ppbv	66	J	53	J	18		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	490		420	/J	14	/J	NC	NC	NC
Acetone	ppbv	320	/B	200	/B	30	/B	NC	NC	NC
Benzene	ppbv	1,100		1,200		34		96.91%	97.17%	97.04%
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	490	/UBJ	270	/J	ND	U/UJ	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	0.45	J	NC	NC	NC
Chloroethane	ppbv	140		110		1.4		98.73%	99.00%	98.86%
Chloroform	ppbv	2,900		3,300		5.6		99.81%	99.83%	99.82%
Chloromethane	ppbv	ND	U	ND	U	1.0	J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	5,300		5,000		8.8		99.82%	99.83%	99.83%
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	2,300		3,200		22		99.04%	99.31%	99.18%
m,p-Xylene	ppbv	9,600		12,000		82		99.15%	99.32%	99.23%
Methylene Chloride	ppbv	4,300	/UB	3,400	/B	80	/B	NC	NC	NC
o-Xylene	ppbv	4,800		5,900		30		99.38%	99.49%	99.43%
Styrene	ppbv	ND	U	ND	U	2.2		NC	NC	NC
Tetrachloroethene	ppbv	12,000		17,000		47		99.61%	99.72%	99.67%
Toluene	ppbv	11,000		11,000		290		97.36%	97.36%	97.36%
trans-1,2-Dichloroethene	ppbv	46		33		0.98		97.03%	97.87%	97.45%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	5,600		8,100		33		99.41%	99.59%	99.50%
Vinyl Chloride	ppbv	640		680		4.7		99.27%	99.31%	99.29%
Total	**ppbv**	**71,728**		**87,881**		**781.1**		**98.91%**	**99.11%**	**99.01%**
Total	**lb/hr**	**1.000**		**1.267**		**0.009**		**99.10%**	**99.29%**	**99.19%**

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour

Qualifiers:
U - Below reported quantitation limit
J - Result is estimated
B - Compound or analyte was positively detected in a sample and in an associated blank.
UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.
UBJ - Analyte is not detected at or avove the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
On-site	02/28/08	89	758
Off-site	02/28/08	43	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.3
Thermal Oxidizer 1 Results for Method TO-15 (VOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	2,900		2,900		38		98.69%	98.69%	98.69%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	0.3	J	NC	NC	NC
1,1-Dichloroethane	ppbv	790		790		9.6		98.78%	98.78%	98.78%
1,1-Dichloroethene	ppbv	44		45		4.8		89.09%	89.33%	89.21%
1,2-Dichloroethane	ppbv	65		65		1.3		98.00%	98.00%	98.00%
1,2-Dichloropropane	ppbv	56		56		0.35	J	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	44	J	44	J	27		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	0.75	J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	120		110		20		81.82%	83.33%	82.58%
Acetone	ppbv	140	/UB	150	/UB	41	/B	NC	NC	NC
Benzene	ppbv	450		440		22		95.00%	95.11%	95.06%
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	370	/JB	500	/JB	0.68	JB/UBJ	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chloroethane	ppbv	190		200		0.87		99.54%	99.57%	99.55%
Chloroform	ppbv	960		920		5.1		99.45%	99.47%	99.46%
Chloromethane	ppbv	ND	U	ND	U	0.82	J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	3,200		3,200		10		99.69%	99.69%	99.69%
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	940		910		19		97.91%	97.98%	97.95%
m,p-Xylene	ppbv	3,300		3,300		78		97.64%	97.64%	97.64%
Methylene Chloride	ppbv	1,000	/B	1,000	/B	53	/B	NC	NC	NC
o-Xylene	ppbv	1,700		1,700		30		98.24%	98.24%	98.24%
Styrene	ppbv	19	J	17	J	1.7		NC	NC	NC
Tetrachloroethene	ppbv	3,900		3,800		30		99.21%	99.23%	99.22%
Toluene	ppbv	3,200		3,200		170		94.69%	94.69%	94.69%
trans-1,2-Dichloroethene	ppbv	35		36		1.2		96.57%	96.67%	96.62%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	1,900		1,900		26		98.63%	98.63%	98.63%
Vinyl Chloride	ppbv	1,100		1,100		4.2		99.62%	99.62%	99.62%
Total	**ppbv**	**26,423**		**26,383**		**595.7**		**97.74%**	**97.75%**	**97.74%**
Total	**lb/hr**	**0.443**		**0.440**		**0.009**		**97.95%**	**97.97%**	**97.96%**

Notes:

NC - Not calculated

ND - Non-detect

ppbv - Parts per billion volume

lb/hr - Pounds per hour

Qualifiers:

U - Below reported quantitation limit

J - Result is estimated

B - Compound or analyte was positively detected in a sample and in an associated blank.

JB - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit

UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.

UBJ - Analyte is not detected at or avove the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
Therm-Ox 1	03/27/08	82	903

Temperatures and flow rates reported correspond to instantaneous readings.

JEF/JDP/app

J:\405\0577 ACS\0201 Engr\05770201a133.xls\Table 3.3

Table 3.4
Thermal Oxidizer 2 Results for Method TO-15 (VOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	21,000	/J	19,000		300		NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	1.1		NC	NC	NC
1,1,2-Trichloroethane	ppbv	67		91		ND	U	100.00%	100.00%	100.00%
1,1-Dichloroethane	ppbv	2,500		2,300		130		94.35%	94.80%	94.57%
1,1-Dichloroethene	ppbv	58		56		100		NC	NC	NC
1,2-Dichloroethane	ppbv	460		420		13		96.90%	97.17%	97.04%
1,2-Dichloropropane	ppbv	100		96		3		96.88%	97.00%	96.94%
2-Butanone (Methyl Ethyl Ketone)	ppbv	400	/B	5,800	/B	86		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	15		NC	NC	NC
4-Methyl-2-pentanone	ppbv	230		2,700		84		63.48%	96.89%	80.18%
Acetone	ppbv	14,000		14,000		320		97.71%	97.71%	97.71%
Benzene	ppbv	14,000	/J	12,000		360	/UB	NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	520	/J	960	/J	ND	U	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	1.6		NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	14		NC	NC	NC
Chloroethane	ppbv	800		430		30		93.02%	96.25%	94.64%
Chloroform	ppbv	1,100		1,000		33		96.70%	97.00%	96.85%
Chloromethane	ppbv	ND	U	18	J	11		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	3,900		3,600		130		96.39%	96.67%	96.53%
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	0.68		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	3,300		4,100		180		94.55%	95.61%	95.08%
m,p-Xylene	ppbv	27,000	/J	33,000		620		NC	NC	NC
Methylene Chloride	ppbv	25,000	/J	24,000		520	/UB	NC	NC	NC
o-Xylene	ppbv	11,000	/J	12,000		240		NC	NC	NC
Styrene	ppbv	160		170		28		82.50%	83.53%	83.01%
Tetrachloroethene	ppbv	12,000	/J	5,700		540		NC	NC	NC
Toluene	ppbv	43,000	/J	240,000	/J	2,200		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	52		51		19		62.75%	63.46%	63.10%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	1		NC	NC	NC
Trichloroethene	ppbv	13,000	/J	13,000		220		NC	NC	NC
Vinyl Chloride	ppbv	110		1,200		81		26.36%	93.25%	59.81%
Total	**ppbv**	**193,757**		**395,692**		**6,281.4**		**96.76%**	**98.41%**	**97.59%**
Total	**lb/hr**	**3.854**		**8.939**		**0.150**		**96.11%**	**98.32%**	**97.21%**

Notes:

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

Qualifiers:

U - below reported quantitation limit

J - Result is estimated

UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

B - Compound or analyte was positively detected in a sample and in an associated blank.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated or above the quantitation range.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
On-site	Average	100	721
Off-site	Average	68	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.5
Thermal Oxidizer 2 Results for Method TO-15 (VOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	21,000		11,000		610		94.45%	97.10%	95.77%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	89		88		2.6		97.05%	97.08%	97.06%
1,1-Dichloroethane	ppbv	3,300		3,400		200		93.94%	94.12%	94.03%
1,1-Dichloroethene	ppbv	100		60		99		NC	NC	NC
1,2-Dichloroethane	ppbv	510		390		12		96.92%	97.65%	97.29%
1,2-Dichloropropane	ppbv	120		91		2.4		97.36%	98.00%	97.68%
2-Butanone (Methyl Ethyl Ketone)	ppbv	4,000		2,400		140		94.17%	96.50%	95.33%
2-Hexanone	ppbv	550	/J	520	/J	7.6	/J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	4,500	/J	2,400	/J	110	/J	NC	NC	NC
Acetone	ppbv	14,000	/B	4,700	/B	390	/B	NC	NC	NC
Benzene	ppbv	11,000		5,600		620		88.93%	94.36%	91.65%
Bromodichloromethane	ppbv	17	J	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	22	J	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	760		110	/J	ND	U/UJ	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U/UJ	ND	U	2.2		NC	NC	NC
Chlorobenzene	ppbv	160		160		6.3		96.06%	96.06%	96.06%
Chloroethane	ppbv	480		240		6.1		97.46%	98.73%	98.09%
Chloroform	ppbv	1,400		1,200		41		96.58%	97.07%	96.83%
Chloromethane	ppbv	41	J	28	J	9.7		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	2,200		1,200		46		96.17%	97.91%	97.04%
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	7,000		3,500		200		94.29%	97.14%	95.71%
m,p-Xylene	ppbv	27,000		12,000		680		94.33%	97.48%	95.91%
Methylene Chloride	ppbv	5,200	/UB	39,000	/B	910	/B	NC	NC	NC
o-Xylene	ppbv	9,400		3,900		240		93.85%	97.45%	95.65%
Styrene	ppbv	450		470		37		91.78%	92.13%	91.95%
Tetrachloroethene	ppbv	13,000		6,200		570		90.81%	95.62%	93.21%
Toluene	ppbv	14,000		26,000		1,600		88.57%	93.85%	91.21%
trans-1,2-Dichloroethene	ppbv	48		22	J	6.8		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	0.67	/J	NC	NC	NC
Trichloroethene	ppbv	12,000		5,100		420		91.76%	96.50%	94.13%
Vinyl Chloride	ppbv	770		430		43		90.00%	94.42%	92.21%
Total	**ppbv**	**153,095**		**130,231**		**7,012.4**		**94.62%**	**95.42%**	**95.02%**
Total	**lb/hr**	**4.028**		**3.177**		**0.177**		**94.43%**	**95.61%**	**95.02%**

Notes:

NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

Qualifiers:

U - below reported quantitation limit
J - Result is estimated
B - Compound or analyte was positively detected in a sample and in an associated blank.
UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.
Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.
Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
On-site	02/28/08	89	758
Off-site	02/28/08	43	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

CRS/JEF/JDP/app
J:\405\0577 ACS\0201 Engr\05770201a133.xls\Table 3.5

Table 3.6
Thermal Oxidizer 2 Results for Method TO-15 (VOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	14,000		16,000		300		97.86%	98.13%	97.99%
1,1,2,2-Tetrachloroethane	ppbv	130		140		1.1		99.15%	99.21%	99.18%
1,1,2-Trichloroethane	ppbv	110		120		2.8		97.45%	97.67%	97.56%
1,1-Dichloroethane	ppbv	2,300		2,600		61		97.35%	97.65%	97.50%
1,1-Dichloroethene	ppbv	68		75		72		NC	NC	NC
1,2-Dichloroethane	ppbv	340		370		8.6		97.47%	97.68%	97.57%
1,2-Dichloropropane	ppbv	100		110		2.2		97.80%	98.00%	97.90%
2-Butanone (Methyl Ethyl Ketone)	ppbv	9,300	/UB	9,800	/UB	150		NC	NC	NC
2-Hexanone	ppbv	100	J	ND	U	3.3	/B	NC	NC	NC
4-Methyl-2-pentanone	ppbv	3,400		3,700	/J	52		NC	NC	NC
Acetone	ppbv	9,000	/UB	10,000	/UBJ	240	/UB	NC	NC	NC
Benzene	ppbv	8,500		10,000		310		96.35%	96.90%	96.63%
Bromodichloromethane	ppbv	58		ND	U	1.6		NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	720	/JB	300	/UBJ	0.89	JB/UBJ	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	0.76		NC	NC	NC
Chlorobenzene	ppbv	240		ND	U	3.8		NC	NC	NC
Chloroethane	ppbv	650		890		15		97.69%	98.31%	98.00%
Chloroform	ppbv	1,100		1,100		32		97.09%	97.09%	97.09%
Chloromethane	ppbv	20	J	21		6.4		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	2,600		3,300		69		97.35%	97.91%	97.63%
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	0.51		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	5,500		5,900		96		98.25%	98.37%	98.31%
m,p-Xylene	ppbv	29,000		33,000	/J	350		NC	NC	NC
Methylene Chloride	ppbv	19,000	/B	22,000	/B	370	/B	NC	NC	NC
o-Xylene	ppbv	11,000		12,000		130		98.82%	98.92%	98.87%
Styrene	ppbv	220		240		24		89.09%	90.00%	89.55%
Tetrachloroethene	ppbv	9,000		11,000		230		97.44%	97.91%	97.68%
Toluene	ppbv	49,000		54,000	/J	1,000		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	39		47		8.7		77.69%	81.49%	79.59%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	0.57		NC	NC	NC
Trichloroethene	ppbv	9,400		11,000		220		97.66%	98.00%	97.83%
Vinyl Chloride	ppbv	900		1,200		49		94.56%	95.92%	95.24%
Total	**ppbv**	**185,795**		**208,913**		**3,811.2**		**97.95%**	**98.18%**	**98.06%**
Total	**lb/hr**	**5.669**		**6.399**		**0.115**		**97.97%**	**98.20%**	**98.09%**

Notes:

NC - Not calculated

ND - Non-detect

ppbv - parts per billion volume

lb/hr - pounds per hour

Qualifiers:

U - Below reported quantitation limit

J - Result is estimated

B - Compound or analyte was positively detected in a sample and in an associated blank.

JB - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit

UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.

UBJ - Analyte is not detected at or avove the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Destruction efficiencies were not calculated if either the influent or effluent samples were estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Total destruction efficiencies that include the estimated results of any individual compound will be considered an estimated value.

System	Date	Temp (F)	Flow (scfm)
Therm-Ox 2	03/27/08	53.5	1,919

Temperatures and flow rates reported correspond to instantaneous readings.

JEF/JDP/app

J:\405\0577 ACS\0201 Engr\05770201a133.xls\Table 3.6

Table 3.7
SBPA and Off-Site ISVE System Results
for Method TO-15 (VOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	9,100		16,000	
1,1,2,2-Tetrachloroethane	ppbv	26	J	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	3,100		6,600	
1,1-Dichloroethene	ppbv	120		130	
1,2-Dichloroethane	ppbv	220		690	
1,2-Dichloropropane	ppbv	180		150	
2-Butanone (Methyl Ethyl Ketone)	ppbv	ND	U	6,500	
2-Hexanone	ppbv	ND	U	1,400	/J
4-Methyl-2-pentanone	ppbv	1,500		9,300	
Acetone	ppbv	540	/UB	11,000	/B
Benzene	ppbv	1,500		9,800	
Bromodichloromethane	ppbv	ND	U	20	J
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	1,500		700	
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	43		41	
Chloroethane	ppbv	780		140	
Chloroform	ppbv	2,800		1,900	
Chloromethane	ppbv	ND	U	45	J
cis-1,2-Dichloroethene	ppbv	11,000		2,000	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	7,700		14,000	
m,p-Xylene	ppbv	21,000		35,000	
Methylene Chloride	ppbv	3,000	/UB	23,000	/B
o-Xylene	ppbv	10,000		22,000	
Styrene	ppbv	ND	U	1,100	
Tetrachloroethene	ppbv	16,000		13,000	
Toluene	ppbv	19,000		170,000	/J
trans-1,2-Dichloroethene	ppbv	91		37	
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	5,900		10,000	
Vinyl Chloride	ppbv	1,800		310	
Total	**ppbv**	**116,900**		**354,863**	
Total	**lb/hr**	**1.495**		**8.263**	

Notes:
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.
B - Compound or analyte was positively detected in a sample and in an associated blank.
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
On-site	Average	100	721
Off-site	Average	68	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.8
SBPA and Off-Site ISVE System Results
for Method TO-15 (VOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	11,000		29,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	140	
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	1,400		5,700	
1,1-Dichloroethene	ppbv	61		190	
1,2-Dichloroethane	ppbv	160		910	
1,2-Dichloropropane	ppbv	130		210	
2-Butanone (Methyl Ethyl Ketone)	ppbv	61	J	9,500	
2-Hexanone	ppbv	ND	U	1,100	/J
4-Methyl-2-pentanone	ppbv	490		11,000	
Acetone	ppbv	290	/UB	17,000	/B
Benzene	ppbv	1,200		14,000	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	480	/UBJ	550	/JB
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	13	J	32	
Chloroethane	ppbv	130		250	
Chloroform	ppbv	2,900		2,300	
Chloromethane	ppbv	ND	U	65	J
cis-1,2-Dichloroethene	ppbv	5,400		2,600	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	2,400		11,000	
m,p-Xylene	ppbv	9,900		43,000	
Methylene Chloride	ppbv	4,300	/UB	46,000	/UB
o-Xylene	ppbv	4,900		15,000	
Styrene	ppbv	210		770	
Tetrachloroethene	ppbv	17,000		19,000	
Toluene	ppbv	16,000		15,000	
trans-1,2-Dichloroethene	ppbv	38		64	
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	8,100		17,000	
Vinyl Chloride	ppbv	670		720	
Total	**ppbv**	**87,233**		**262,101**	
Total	**lb/hr**	**1.240**		**6.427**	

Notes:
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
B - Compound or analyte was positively detected in a sample and in an associated blank.
JB - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.
UBJ - Analyte is not detected at or avove the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
On-site	02/28/08	89	758
Off-site	02/28/08	43	1,489

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.9
SBPA and Off-Site ISVE System Results
for Method TO-15 (VOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	2,700		7,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	120	
1,1-Dichloroethane	ppbv	770		2,300	
1,1-Dichloroethene	ppbv	42		69	
1,2-Dichloroethane	ppbv	62		390	
1,2-Dichloropropane	ppbv	55		110	
2-Butanone (Methyl Ethyl Ketone)	ppbv	56	J	5,700	
2-Hexanone	ppbv	ND	U	ND	U
4-Methyl-2-pentanone	ppbv	160		4,000	
Acetone	ppbv	160	/UB	6,500	/UB
Benzene	ppbv	470		5,400	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	460	/JB	220	/JB
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	ND	U	ND	U
Chloroethane	ppbv	160		100	
Chloroform	ppbv	940		1,000	
Chloromethane	ppbv	ND	U	26	J
cis-1,2-Dichloroethene	ppbv	3,500		1,300	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	1,000		5,200	
m,p-Xylene	ppbv	3,700		18,000	
Methylene Chloride	ppbv	1,100	/B	11,000	/UB
o-Xylene	ppbv	1,900		6,600	
Styrene	ppbv	19	J	250	
Tetrachloroethene	ppbv	3,900		5,100	
Toluene	ppbv	3,700		35,000	
trans-1,2-Dichloroethene	ppbv	35		28	J
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	2,000		5,000	
Vinyl Chloride	ppbv	1,100		270	
Total	**ppbv**	**27,989**		**120,683**	
Total	**lb/hr**	**0.465**		**3.638**	

Notes:

NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour

Qualifiers:

J - Result is estimated
U - Below reported quantitation limit
B - Compound or analyte was positively detected in a sample and in an associated blank.
UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.
JB - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
On-site	03/27/08	82	937
Off-site	03/27/08	53.5	1,919

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.10
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	1.3	J	ND	U	ND	U	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2-Methylnaphthalene	µg	1.8	J	ND	U	ND	U	NC	NC	NC
2-Methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Acenaphthene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Acenaphthylene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Anthracene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Benzo[a]anthracene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Benzo[a]pyrene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	1.9	Jb/UB	1.9	Jb/UB	2.2	Jb/UB	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Fluoranthene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Fluorene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	2.1	J	ND	U	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno[1,2,3cd]pyrene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Isophorone	µg	ND	U	ND	U	ND	U	NC	NC	NC

Table 3.10
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	3.6	/J	0.44	J/J	0.18	J	NC	NC	NC
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Phenanthrene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Phenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Pyrene	µg	ND	U/UJ	ND	U/UJ	ND	U	NC	NC	NC
Total	µg	**10.70**		**2.34**		**2.38**		**NC**	**NC**	**NC**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit

R - Result rejected

UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.11
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	1.3		2.5		ND	U	100.00%	100.00%	100.00%
1,2-Dichlorobenzene	µg	11		18		ND	U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	µg	1.4		2.2		ND	U	100.00%	100.00%	100.00%
1,4-Dichlorobenzene	µg	2.6		4.0		ND	U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	µg	1.8		5.6		ND	U	100.00%	100.00%	100.00%
2-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	µg	ND	U	0.25	J	ND	U	NC	NC	NC
Acenaphthylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	1.2		2.1		ND	U	100.00%	100.00%	100.00%
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Carbazole	µg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	1.9	J	2.4	J	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	3.8		5.7		ND	U	100.00%	100.00%	100.00%
Hexachlorobutadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC

Table 3.11
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	1.0		1.8		ND	U	100.00%	100.00%	100.00%
Naphthalene	µg	4.5	/B	10	/B	0.15	J/UB	NC	NC	NC
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**28.60**		**54.05**		**2.55**		**91.08%**	**95.28%**	**93.18%**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

B - Compound or analyte was positively detected in a sample and in an associated blank.

UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.12
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	2	J	2.7	J	ND	U	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Acenaphthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	1.8	J	1.9	J	2.7	J	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Carbazole	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Chrysene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	ND	U	0.93	J	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC

Table 3.12
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	ND	U	ND	U	ND	U	NC	NC	NC
Naphthalene	µg	0.95	J	1.2		ND	U	NC	NC	NC
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**4.75**		**6.73**		**2.70**		**NC**	**NC**	**NC**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

UJ - Indicates the compound or analyte was analyzed for but not detected.
The sample detection limit is an estimated value.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.13
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	ND	U	14		ND	U	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	ND	U	3.2	J	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2-Methylnaphthalene	µg	ND	U	2.2	J	ND	U	NC	NC	NC
2-Methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Acenaphthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	µg	0.4	J/UB	ND	U	ND	U	NC	NC	NC
Anthracene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Benzo[a]anthracene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Benzo[a]pyrene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	4.9	Jb/UB	3	Jb/UB	9	Jb/UB	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Fluoranthene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	ND	U	1.8	J	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno[1,2,3cd]pyrene	µg	ND	U/UJ	ND	U	ND	U/UJ	NC	NC	NC
Isophorone	µg	ND	U	12		ND	U	NC	NC	NC

Table 3.13
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	0.77	J/J	16	/J	0.46	J/J	NC	NC	NC
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Phenanthrene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Phenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Pyrene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Total	µg	**6.07**		**52.20**		**9.46**		**NC**	**NC**	**NC**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit

R - Result rejected

UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.14
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	ND	U	1.4		ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	14		27		0.42	J	NC	NC	NC
1,3-Dichlorobenzene	µg	0.59	J	1.0		ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	3.4		5.4		ND	U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	µg	1.5		4.5		0.18	J	NC	NC	NC
2-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	2.0		4.3		ND	U	100.00%	100.00%	100.00%
Bis(2-ethylhexyl)phthalate	µg	1.6	J	ND	U	5.9		NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Carbazole	µg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	0.92	J	2.0		ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC

Table 3.14
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	11		20		ND	U	100.00%	100.00%	100.00%
Naphthalene	µg	11	/B	36	/B	0.98	J/UB	NC	NC	NC
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**46.01**		**101.60**		**7.48**		**83.74%**	**92.64%**	**88.19%**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

B - Compound or analyte was positively detected in a sample and in an associated blank.

UB - Compound or analtye is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.15
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	6.8	J	5.4	J	ND	U	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	1.3	J	0.92	J	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U	ND	U	NC	NC	NC
3/4-Methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Acenaphthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[a]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[b]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[g,h,i]perylene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo[k]fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	6.6	J	3.8	J	12		NC	NC	NC
Butyl benzyl phthalate	µg	1.5	J	ND	U	ND	U	NC	NC	NC
Carbazole	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Chrysene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz[a,h]anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC

Table 3.15
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	4.6	J	4	J	ND	U	NC	NC	NC
Naphthalene	µg	5.4		4.6		ND	U	100.00%	100.00%	100.00%
Nitrobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**26.20**		**18.72**		**12.00**		**NC**	**NC**	**NC**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

UJ - Indicates the compound or analyte was analyzed for but not detected.
The sample detection limit is an estimated value.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.16
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	ND	U	1.1	J
1,2-Dichlorobenzene	µg	5.6	J	16	
1,3-Dichlorobenzene	µg	ND	U	ND	U
1,4-Dichlorobenzene	µg	1.8	J	2.3	J
2,4,5-Trichlorophenol	µg	ND	U/R	ND	U/R
2,4,6-Trichlorophenol	µg	ND	U/R	ND	U/R
2,4-Dichlorophenol	µg	ND	U/R	ND	U/R
2,4-Dimethylphenol	µg	ND	U/R	ND	U/R
2,4-Dinitrophenol	µg	ND	U/R	ND	U/R
2,4-Dinitrotoluene	µg	ND	U	ND	U
2,6-Dinitrotoluene	µg	ND	U	ND	U
2-Chloronaphthalene	µg	ND	U	ND	U
2-Chlorophenol	µg	ND	U/R	ND	U/R
2-Methylnaphthalene	µg	2	J	5.6	J
2-Methylphenol	µg	ND	U/R	ND	U/R
2-Nitroaniline	µg	ND	U	ND	U
2-Nitrophenol	µg	ND	U/R	ND	U/R
3,3·-Dichlorobenzidine	µg	ND	U	ND	U
3/4-Methylphenol	µg	ND	U/R	ND	U/R
3-Nitroaniline	µg	ND	U	ND	U
4,6-Dinitro-2-methylphenol	µg	ND	U/R	ND	U/R
4-Bromophenyl phenyl ether	µg	ND	U	ND	U
4-Chloro-3-methylphenol	µg	ND	U/R	ND	U/R
4-Chloroaniline	µg	ND	U	ND	U
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U
4-Nitroaniline	µg	ND	U	ND	U
4-Nitrophenol	µg	ND	U/R	ND	U/R
Acenaphthene	µg	ND	U	ND	U
Acenaphthylene	µg	ND	U	ND	U
Anthracene	µg	ND	U/UJ	ND	U/UJ
Benzo[a]anthracene	µg	ND	U/UJ	ND	U/UJ
Benzo[a]pyrene	µg	ND	U/UJ	ND	U/UJ
Benzo[b]fluoranthene	µg	ND	U/UJ	ND	U/UJ
Benzo[g,h,i]perylene	µg	ND	U/UJ	ND	U/UJ
Benzo[k]fluoranthene	µg	ND	U/UJ	ND	U/UJ
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U
Bis(2-chloroethyl)ether	µg	ND	U	ND	U
Bis(2-ethylhexyl)phthalate	µg	1.1	Jb/UB	3.3	Jb/UB
Butyl benzyl phthalate	µg	ND	U	ND	U
Chrysene	µg	ND	U/UJ	ND	U/UJ
Dibenz[a,h]anthracene	µg	ND	U/UJ	ND	U/UJ
Dibenzofuran	µg	ND	U	ND	U
Diethyl phthalate	µg	ND	U	ND	U
Dimethyl phthalate	µg	ND	U	ND	U
Di-n-butyl phthalate	µg	ND	U	ND	U
Di-n-octyl phthalate	µg	ND	U/UJ	ND	U/UJ
Fluoranthene	µg	ND	U/UJ	ND	U/UJ
Fluorene	µg	ND	U	ND	U
Hexachlorobenzene	µg	ND	U	ND	U
Hexachlorobutadiene	µg	5	J	2.7	J
Hexachlorocyclopentadiene	µg	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U
Indeno[1,2,3cd]pyrene	µg	ND	U/UJ	ND	U/UJ
Isophorone	µg	ND	U	22	

Table 3.16
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - January 2008
American Chemical Service
Griffith, Indiana

		Sampled 1/10/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Naphthalene	µg	6.8		40	
Nitrobenzene	µg	ND	U	ND	U
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U
N-Nitrosodiphenylamine	µg	ND	U	ND	U
Pentachlorophenol	µg	ND	U/R	ND	U/R
Phenanthrene	µg	ND	U/UJ	ND	U/UJ
Phenol	µg	ND	U/R	ND	U/R
Pyrene	µg	ND	U/UJ	ND	U/UJ
Total	µg	**22.30**		**93.00**	

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit

R - Result rejected

UJ - Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

UB - Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.17
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	1.0		1.2	
1,2-Dichlorobenzene	µg	11		20	
1,3-Dichlorobenzene	µg	1.4		0.66	J
1,4-Dichlorobenzene	µg	2.4		2.5	
2,4,5-Trichlorophenol	µg	ND	U	ND	U
2,4,6-Trichlorophenol	µg	ND	U	ND	U
2,4-Dichlorophenol	µg	ND	U	ND	U
2,4-Dimethylphenol	µg	ND	U	ND	U
2,4-Dinitrophenol	µg	ND	U	ND	U
2,4-Dinitrotoluene	µg	ND	U	ND	U
2,6-Dinitrotoluene	µg	ND	U	ND	U
2-Chloronaphthalene	µg	ND	U	ND	U
2-Chlorophenol	µg	ND	U	ND	U
2-Methylnaphthalene	µg	1.1		4.5	
2-Methylphenol	µg	ND	U	ND	U
2-Nitroaniline	µg	ND	U	ND	U
2-Nitrophenol	µg	ND	U	ND	U
3,3·-Dichlorobenzidine	µg	ND	U	ND	U
3/4-Methylphenol	µg	ND	U	2.1	J
3-Nitroaniline	µg	ND	U	ND	U
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U
4-Bromophenyl phenyl ether	µg	ND	U	ND	U
4-Chloro-3-methylphenol	µg	ND	U	ND	U
4-Chloroaniline	µg	ND	U	ND	U
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U
4-Nitroaniline	µg	ND	U	ND	U
4-Nitrophenol	µg	ND	U	ND	U
Acenaphthene	µg	ND	U	ND	U
Acenaphthylene	µg	ND	U	ND	U
Anthracene	µg	ND	U	ND	U
Benzo[a]anthracene	µg	ND	U	ND	U
Benzo[a]pyrene	µg	ND	U	ND	U
Benzo[b]fluoranthene	µg	ND	U	ND	U
Benzo[g,h,i]perylene	µg	ND	U	ND	U
Benzo[k]fluoranthene	µg	ND	U	ND	U
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U
Bis(2-chloroethyl)ether	µg	1.4		3.9	
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U
Bis(2-ethylhexyl)phthalate	µg	ND	U	1.4	J
Butyl benzyl phthalate	µg	ND	U	ND	U
Carbazole	µg	ND	U	ND	U
Chrysene	µg	ND	U	ND	U
Dibenz[a,h]anthracene	µg	ND	U	ND	U
Dibenzofuran	µg	ND	U	ND	U
Diethyl phthalate	µg	ND	U	ND	U
Dimethyl phthalate	µg	ND	U	ND	U
Di-n-butyl phthalate	µg	ND	U	ND	U
Di-n-octyl phthalate	µg	ND	U	ND	U
Fluoranthene	µg	ND	U	ND	U
Fluorene	µg	ND	U	ND	U
Hexachlorobenzene	µg	ND	U	ND	U
Hexachlorobutadiene	µg	3.2		1.8	
Hexachlorocyclopentadiene	µg	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U

Table 3.17
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - February 2008
American Chemical Service
Griffith, Indiana

		Sampled 2/28/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U
Isophorone	µg	1.2		19	
Naphthalene	µg	3.8	/B	31	/B
Nitrobenzene	µg	ND	U	ND	U
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U
N-Nitrosodiphenylamine	µg	ND	U	ND	U
Pentachlorophenol	µg	ND	U	ND	U
Phenanthrene	µg	ND	U	ND	U
Phenol	µg	ND	U	ND	U
Pyrene	µg	ND	U	0.14	J
Total	µg	**26.50**		**88.20**	

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

B - Compound or analyte was positively detected in a sample and in an associated blank.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.18
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	ND	U	ND	U
1,2-Dichlorobenzene	µg	1.9	J	ND	U
1,3-Dichlorobenzene	µg	ND	U	ND	U
1,4-Dichlorobenzene	µg	ND	U	2.8	J
2,4,5-Trichlorophenol	µg	ND	U	ND	U
2,4,6-Trichlorophenol	µg	ND	U	ND	U
2,4-Dichlorophenol	µg	ND	U	ND	U
2,4-Dimethylphenol	µg	ND	U	ND	U
2,4-Dinitrophenol	µg	ND	U	ND	U
2,4-Dinitrotoluene	µg	ND	U	ND	U
2,6-Dinitrotoluene	µg	ND	U	ND	U
2-Chloronaphthalene	µg	ND	U	ND	U
2-Chlorophenol	µg	ND	U	ND	U
2-Methylnaphthalene	µg	ND	U	ND	U
2-Methylphenol	µg	ND	U	ND	U
2-Nitroaniline	µg	ND	U	ND	U
2-Nitrophenol	µg	ND	U	ND	U
3,3·-Dichlorobenzidine	µg	ND	U	ND	U
3/4-Methylphenol	µg	ND	U	ND	U
3-Nitroaniline	µg	ND	U	ND	U
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U
4-Bromophenyl phenyl ether	µg	ND	U	ND	U
4-Chloro-3-methylphenol	µg	ND	U	ND	U
4-Chloroaniline	µg	ND	U	ND	U
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U
4-Nitroaniline	µg	ND	U	ND	U
4-Nitrophenol	µg	ND	U/UJ	ND	U/UJ
Acenaphthene	µg	ND	U	ND	U
Acenaphthylene	µg	ND	U	ND	U
Anthracene	µg	ND	U	ND	U
Benzo[a]anthracene	µg	ND	U	ND	U
Benzo[a]pyrene	µg	ND	U	ND	U
Benzo[b]fluoranthene	µg	ND	U	ND	U
Benzo[g,h,i]perylene	µg	ND	U	ND	U
Benzo[k]fluoranthene	µg	ND	U	ND	U
Bis(2-chloroethoxy)methane	µg	ND	U	ND	U
Bis(2-chloroethyl)ether	µg	ND	U	ND	U
Bis(2-chloroisopropyl)ether	µg	ND	U	ND	U
Bis(2-ethylhexyl)phthalate	µg	ND	U	1.5	J
Butyl benzyl phthalate	µg	ND	U	ND	U
Carbazole	µg	ND	U/UJ	ND	U/UJ
Chrysene	µg	ND	U	ND	U
Dibenz[a,h]anthracene	µg	ND	U	ND	U
Dibenzofuran	µg	ND	U	ND	U
Diethyl phthalate	µg	ND	U	ND	U
Dimethyl phthalate	µg	ND	U	ND	U
Di-n-butyl phthalate	µg	ND	U	ND	U
Di-n-octyl phthalate	µg	ND	U	ND	U
Fluoranthene	µg	ND	U	ND	U
Fluorene	µg	ND	U	ND	U
Hexachlorobenzene	µg	ND	U	ND	U
Hexachlorobutadiene	µg	ND	U	ND	U
Hexachlorocyclopentadiene	µg	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U

Table 3.18
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - March 2008
American Chemical Service
Griffith, Indiana

		Sampled 3/27/08			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U
Isophorone	µg	ND	U	3.5	J
Naphthalene	µg	0.58	J	5.4	
Nitrobenzene	µg	ND	U	ND	U
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U
N-Nitrosodiphenylamine	µg	ND	U	ND	U
Pentachlorophenol	µg	ND	U	ND	U
Phenanthrene	µg	ND	U	ND	U
Phenol	µg	ND	U	ND	U
Pyrene	µg	ND	U	ND	U
Total	µg	**2.48**		**13.20**	

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit

UJ - Indicates the compound or analyte was analyzed for but not detected.
The sample detection limit is an estimated value.

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-01	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	88.5	23	
	3/27/2008	Water	84.0	65	
SVE-02	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	93.0	Water	
	3/27/2008	Water	91.5	52	
SVE-03	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-04	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	82.5	Water	
	3/27/2008	Water	82.0	46	
SVE-05	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	85.5	20	
	3/27/2008	Water	84.0	60	
SVE-06	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-07	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-08	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-09	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-10	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-11	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-12	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	77.5	Water	
	3/27/2008	Water	69.0	45	
SVE-13	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-14	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	91.0	450	
	3/27/2008	Water	86.0	800	
SVE-15	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-16	1/30/2008	NM	NM	NM	System Down
	2/22/2008	250	86.0	50	
	3/27/2008	35	87.5	320	
SVE-17	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-18	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-19	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-20	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-21	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-22	1/30/2008	NM	NM	NM	System Down
	2/22/2008	359	92.5	250	
	3/27/2008	150	88.0	315	
SVE-23	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-24	1/30/2008	NM	NM	NM	System Down
	2/22/2008	208	83.5	350	
	3/27/2008	Water	78.5	415	
SVE-25	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	91.0	500	
	3/27/2008	220	85.5	560	
SVE-26	1/30/2008	NM	NM	NM	System Down
	2/22/2008	15	93.5	150	
	3/27/2008	18	89.0	725	
SVE-27	1/30/2008	NM	NM	NM	System Down
	2/22/2008	81	93.5	110	
	3/27/2008	110	88.0	130	
SVE-28	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	92.0	170	
	3/27/2008	Water	87.0	175	
SVE-29	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	90.5	250	
	3/27/2008	Water	85.5	300	
SVE-30	1/30/2008	NM	NM	NM	System Down
	2/22/2008	20	90.0	915	
	3/27/2008	20	85.5	154	

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-31	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-32	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-33	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-34	1/30/2008	NM	NM	NM	System Down
	2/22/2008	Water	93.0	400	
	3/27/2008	Water	88.5	430	
SVE-35	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-36	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-37	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-38	1/30/2008	NM	NM	NM	System Down
	2/22/2008	37	90.0	470	
	3/27/2008	115	85.5	550	
SVE-39	1/30/2008	NM	NM	NM	System Down
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-40	1/30/2008	NM	NM	NM	System Down
	2/22/2008	98	37.0	800	
	3/27/2008	-	-	-	
SVE-41	1/30/2008	NM	NM	NM	System Down
	2/22/2008	350	87.5	225	
	3/27/2008	Water	82.0	105	
SVE-42	1/30/2008	NM	NM	NM	System Down
	2/22/2008	28	91.5	230	
	3/27/2008	-	-	-	

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
K-P Header 1	1/30/2008	-	NM	NM	System Down
	2/22/2008	-	96.0	200	
	3/27/2008	-	89.5	43	
K-P-Header 2	1/30/2008	-	NM	NM	System Down
	2/22/2008	-	96.0	165	
	3/27/2008	-	89.5	60	
OFCA Header 1	1/30/2008	-	NM	NM	System Down
	2/22/2008	-	92.0	275	
	3/27/2008	-	85.0	300	
OFCA Header 2	1/30/2008	-	NM	NM	System Down
	2/22/2008	-	93.0	300	
	3/27/2008	-	85.5	315	
OFCA Header 3	1/30/2008	-	NM	NM	System Down
	2/22/2008	-	94.0	305	
	3/27/2008	-	87.5	225	

Notes:

"-" = data not collected

"Water" = water present in vapor stream, preventing data collection

NM = Not measured, reason given in comments column

Flow was measured using a VelociCalc 8384 flow meter.

Vacuum pressures were measured with an Extech Manometer Model 407910.

Table 3.20
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data - First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Date	KP1 Line Press (psia)	KP1 Flow (scfm)	KP1 Vac (" H_2O)	KP2 Line Press (psia)	KP2 Flow (scfm)	KP2 Vac (" H_2O)	OFCA1 Vac (" H_2O)	OFCA2 Vac (" H_2O)	OFCA3 Vac (" H_2O)	Dilution Flow (cfm)	Blower Inf Line Press (psia)	Blower Inf Flow (scfm)
1/30/2008	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/22/2008	11.3	0	96	11.3	0	96	92	93	94	0	11.1	769
3/27/2008	11.5	0	89.5	11.5	0	89.5	85	85.5	87.5	0	11.3	694

Date	Blower Inf Vac (" H2O)	Blower Inf VOC (ppm)	Blower Inf Temp. (^oF)	Blower Eff Line Press (psia)	Blower Eff Flow (scfm)	Blower Eff Press (" H_2O)	Blower Eff VOC (ppm)	Blower Eff Temp. (^oF)	Filter Diff Press (" H_2O)	Ambient Temperature (^oF)	Barometric Pressure ("Hg)	Humidity (%)
1/30/2008	NM	NM	NM	NM	NM	NM	-	NM	NM	3	30.05	61%
2/22/2008	100	NM	49	15.5	648	21.0	460	140	7.0	25	29.97	80%
3/27/2008	93.5	NM	50	15.5	651	21.5	400	134	7.0	37	29.97	93%

Notes:

"-" = Data not collected
NM = Not measured for specific date due to system being down
cfm = Cubic feet per minute
" H_20 = Inches of water
ppm = Parts per million
VOCs = Volatile organic compounds
psia = Pounds per square inch, atmosphere
" Hg = Inches of mercury
^oF = Degrees Fahrenheit

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-43	1/30/2008	27	98.5	64	
	2/22/2008	24	123.5	40	
	3/27/2008	11	57.0	55	
SVE-44	1/30/2008	7	-	-	Air injection well
	2/22/2008	Water	120.0	38	
	3/27/2008	46	57.0	40	
SVE-45	1/30/2008	13	99.0	46	
	2/22/2008	15	124.5	86	
	3/27/2008	20	57.0	117	
SVE-46	1/30/2008	4	98.0	93	
	2/22/2008	Water	120.0	73	
	3/27/2008	2	57.0	70	
SVE-47	1/30/2008	45	98.0	285	
	2/22/2008	Water	121.0	72	
	3/27/2008	18	57.0	430	
SVE-48	1/30/2008	Water	96.0	180	
	2/22/2008	40	119.0	260	
	3/27/2008	38	57.0	200	
SVE-49	1/30/2008	-	-	-	
	2/22/2008	21	124.0	75	
	3/27/2008	3	-	-	Air injection well
SVE-50	1/30/2008	Water	99.0	128	
	2/22/2008	18	-	-	Air injection well
	3/27/2008	45	57.0	115	
SVE-51	1/30/2008	24	98.0	65	
	2/22/2008	25	124.0	36	
	3/27/2008	3	-	-	Air injection well
SVE-52	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-53	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-54	1/30/2008	-	-	-	
	2/22/2008	18	-	-	Air injection well
	3/27/2008	23	57.0	51	
SVE-55	1/30/2008	Water	97.5	77	
	2/22/2008	35	123.0	110	
	3/27/2008	29	57.0	97	
SVE-56	1/30/2008	29	89.5	60	
	2/22/2008	36	123.5	76	
	3/27/2008	14	57.0	70	
SVE-57	1/30/2008	Water	97.5	70	
	2/22/2008	NM	NM	NM	Down for repairs
	3/27/2008	18	57.0	71	
SVE-58	1/30/2008	20	104.0	140	
	2/22/2008	Water	130.0	122	
	3/27/2008	Water	59.5	105	

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-59	1/30/2008	5	-	-	Air injection well
	2/22/2008	Water	123.0	63	
	3/27/2008	Water	57.0	60	
SVE-60	1/30/2008	Water	106.0	130	
	2/22/2008	Water	130.0	130	
	3/27/2008	8	59.5	59	
SVE-61	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-62	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-63	1/30/2008	Water	2.0	80	
	2/22/2008	Water	55.5	61	
	3/27/2008	17	7.0	105	
SVE-64	1/30/2008	27	98.5	185	
	2/22/2008	28	123.5	275	
	3/27/2008	52	57.0	115	
SVE-65	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-66	1/30/2008	28	99.5	105	
	2/22/2008	22	124.0	135	
	3/27/2008	29	57.0	235	
SVE-67	1/30/2008	Water	98.0	100	
	2/22/2008	Water	120.0	140	
	3/27/2008	62	57.0	133	
SVE-68	1/30/2008	50	99.5	57	
	2/22/2008	28	120.0	85	
	3/27/2008	22	57.0	87	
SVE-69	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-70	1/30/2008	160	103.0	94	
	2/22/2008	95	96.0	85	
	3/27/2008	72	8.0	45	
SVE-71	1/30/2008	Water	104.0	156	
	2/22/2008	26	130.5	158	
	3/27/2008	-	-	-	
SVE-72	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-73	1/30/2008	-	-	-	
	2/22/2008	21	-	-	Air injection well
	3/27/2008	-	-	-	
SVE-74	1/30/2008	25	102.0	600	
	2/22/2008	70	129.0	630	
	3/27/2008	180	59.5	675	

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-75	1/30/2008	Water	97.0	50	
	2/22/2008	Water	120.0	110	
	3/27/2008	71	56.5	90	
SVE-76	1/30/2008	35	99.0	45	
	2/22/2008	31	122.0	95	
	3/27/2008	20	57.5	64	
SVE-77	1/30/2008	5	-	-	Air injection well
	2/22/2008	-	-	-	
	3/27/2008	25	57.0	65	
SVE-78	1/30/2008	Water	96.0	50	
	2/22/2008	-	-	-	
	3/27/2008	33	57.0	63	
SVE-79	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	
SVE-80	1/30/2008	20	-	-	Air injection well
	2/22/2008	Water	128.5	135	
	3/27/2008	11	60.0	87	
SVE-81	1/30/2008	18	105.5	200	
	2/22/2008	11	-	-	Air injection well
	3/27/2008	30	60.0	60	
SVE-82	1/30/2008	16	102.0	100	
	2/22/2008	10	130.5	85	
	3/27/2008	7	59.0	46	
SVE-83	1/30/2008	60	104.5	228	
	2/22/2008	45	132.0	182	
	3/27/2008	8	59.5	390	
SVE-84	1/30/2008	9	-	-	Air injection well
	2/22/2008	53	129.5	195	
	3/27/2008	-	-	-	
SVE-85	1/30/2008	27	104.0	280	
	2/22/2008	9	130.5	225	
	3/27/2008	7	59.5	550	
SVE-86	1/30/2008	29	104.5	240	
	2/22/2008	26	128.0	190	
	3/27/2008	15	59.5	252	
SVE-87	1/30/2008	20	105.0	252	
	2/22/2008	Water	132.5	200	
	3/27/2008	13	59.5	66	
SVE-88	1/30/2008	-	-	-	
	2/22/2008	-	-	-	
	3/27/2008	-	-	-	

Notes:

"-" = data not collected

"Water" = water present in vapor stream, preventing data collection

NM = Not measured, reason given in comments column

Flow was measured using a VelociCalc 8384 flow meter.

Vacuum pressures were measured with an Extech Manometer Model 407910.

Table 3.22
SBPA In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data - First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Date	North Header			South Header			Dilution	Blower Inf	Blower Inf	Blower Inf	Blower Inf
	Line Press (psia)	Flow (scfm)	Vac (" H_2O)	Line Press (psia)	Flow (scfm)	Vac (" H_2O)	Flow (cfm)	Line Press (psia)	Flow (scfm)	Vac (" H2O)	VOC (ppm)
1/30/2008	10.5	0	118.0	10.6	1055	114.0	0	11.2	5225	100	NM
2/22/2008	10.1	649	129.0	10.0	458	130.5	0	11.1	4578	100	NM
3/27/2008	12.6	3351	59.0	12.5	726	60.0	0	11.1	836	100	NM

Date	Blower Inf Temp. (^oF)	Blower Eff Line Press (psia)	Blower Eff Flow (scfm)	Blower Eff Press (" H_2O)	Blower Eff VOC (ppm)	Blower Eff Temp. (^oF)	Filter Diff Press (" H_2O)	Ambient Temperature (^oF)	Barometric Pressure ("Hg)	Humidity (%)
1/30/2008	58	16.3	2917	42.5	NM	163	6.0	3	30.05	61%
2/22/2008	57	16.4	848	47.0	NM	159	7.0	30	29.96	64%
3/27/2008	56	16.6	1039	51.0	NM	122	8.0	37	29.94	93%

Notes:

"-" = Data not collected

NM = Not measured for specific date due to system being down

cfm = Cubic feet per minute

" H_20 = Inches of water

ppm = Parts per million

VOCs = Volatile organic compounds

psia = Pounds per square inch, atmosphere

" Hg = Inches of mercury

^oF = Degrees Fahrenheit

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Upper Aquifer Wells

Well Designation	Reference Points			3/24/2008		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOIC	Level	Elevation		
MW11	6377	7329	640.47	4.82	635.65		n/a
MW13	5050	7814	634.08	2.88	631.20		n/a
MW37	5395	7976	636.78	4.23	632.55		n/a
MW46	4526	7424	633.32	2.59	630.73		n/a
MW48	5669	7814	636.36	3.81	632.55		n/a
MW49	5551	7650	637.00	4.41	632.59		n/a

Staff Gauges & Piezometers

Well Designation	Reference Points			3/24/2008		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOSG	Level	Elevation		
P23	4689	7018	636.18	5.33	630.85		n/a
P25	5131	7510	633.33	NM	NM	Could not open	n/a
P26	4764	7309	634.23	3.57	630.66		n/a
P27	4904	7020	639.70	9.17	630.53		n/a
P28	5883	7486	644.53	9.72	634.81		n/a
P32	5746	7026	642.32	Dry	Dry		n/a
P40	5931	7241	638.77	3.97	634.80		n/a
P41	5663	7377	637.23	3.20	634.03		n/a
P49	5145	6949	638.98	10.94	628.04		n/a
SG13	4819	7209	631.53	5.00	630.53	TOSG = 6.0' mark	n/a

PGCS Piezometer Sets

Well Designation	Reference Points			3/24/2008		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	Level	Elevation		
P81	5577	7581	636.19	3.89	632.30		n/a
P82	5577	7572	635.77	3.90	631.87		n/a
P83	5577	7561.6	635.95	3.15	632.80		n/a
P84	5322	7603	634.35	2.59	631.76		n/a
P85	5326	7594	634.08	2.38	631.70		n/a
P86	5329	7585	634.41	3.12	631.29		n/a
P87	5121	7466	633.88	2.82	631.06		n/a
P88	5130	7460	633.90	2.73	631.17		n/a
P89	5137	7454	634.02	2.91	631.11		n/a
P90	4881	7152	634.45	4.04	630.41		n/a
P91	4889	7145	634.59	4.35	630.24		n/a
P92	4896	7138.1	633.87	3.55	630.32		n/a

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

BWES Water Level and Piezometer Pairs

Well Designation	Reference Points			3/24/2008		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	Level	Elevation		
P93R - Outside BW	n/a	n/a	639.05	7.43	631.62	Installed Nov. 2004	-4.06
P94R - Inside BW	n/a	n/a	640.99	13.43	627.56	Installed Nov. 2004	
P95 - Outside BW	5146	6532	638.58	5.53	633.05		-8.75
P96 - Inside BW	5156	6537	641.26	16.96	624.30		
P105 - Outside BW	5885	6678	638.86	2.49	636.37		-8.39
P106 - Inside BW	5871	6685	638.10	10.12	627.98		
P107 - Outside BW	5766	7339	637.42	2.95	634.47		-3.82
P108 - Inside BW	5757	7324	638.13	7.48	630.65		
P109 - Outside BW	5740	6387	644.30	8.26	636.04		-8.77
P110 - Inside BW	5705	6382	647.68	20.41	627.27		
P111 - Outside BW	5551	5950	650.03	14.76	635.27		-8.41
P112 - Inside BW	5525	5960	653.36	26.50	626.86		
P113 - Inside BW	5309	5693	657.53	30.25	627.28		-7.18
ORCPZ102 - Outside BW	5331	5612	652.47	18.01	634.46		
P114 - Inside BW	5035	5729	653.69	25.84	627.85		-6.54
P115 - Outside BW	4970	5708	652.50	18.11	634.39		
P116 - Inside BW	5031	6087	646.26	18.53	627.73		-6.47
P117 - Outside BW	5014	6087	643.93	9.73	634.20		
P118 - Inside BW	5402	6539	645.52	18.81	626.71		n/a

Notes:

All depth measurements and elevations are in units of feet.

Elevation is in feet above mean sea level.

TOIC = top of inner casing

TOC = top of casing

TOSG = top of staff gauge

n/a = not applicable

1 A positive value indicates that the water level is higher inside the barrier wall. A negative value indicates that the water level is lower inside the barrier wall.

Table 6.2
Water Levels Inside Barrier Wall - First Quarter 2008
American Chemical Service NPL Site
Griffith, Indiana

Date	On-Site Area					
	Target Level	P-29	P-31	P-32	P-36	P-49
1/11/2008	629.0	630.4	630.9	632.1	624.9	630.7
1/28/2008	629.0	630.4	630.9	631.6	626.2	629.1
2/7/2008	629.0	630.4	630.9	631.5	626.2	629.0
2/22/2008	629.0	630.4	630.9	631.1	624.9	627.7
3/6/2008	629.0	630.4	630.9	630.8	625.8	627.7
3/21/2008	629.0	630.4	630.9	629.7	624.9	627.7

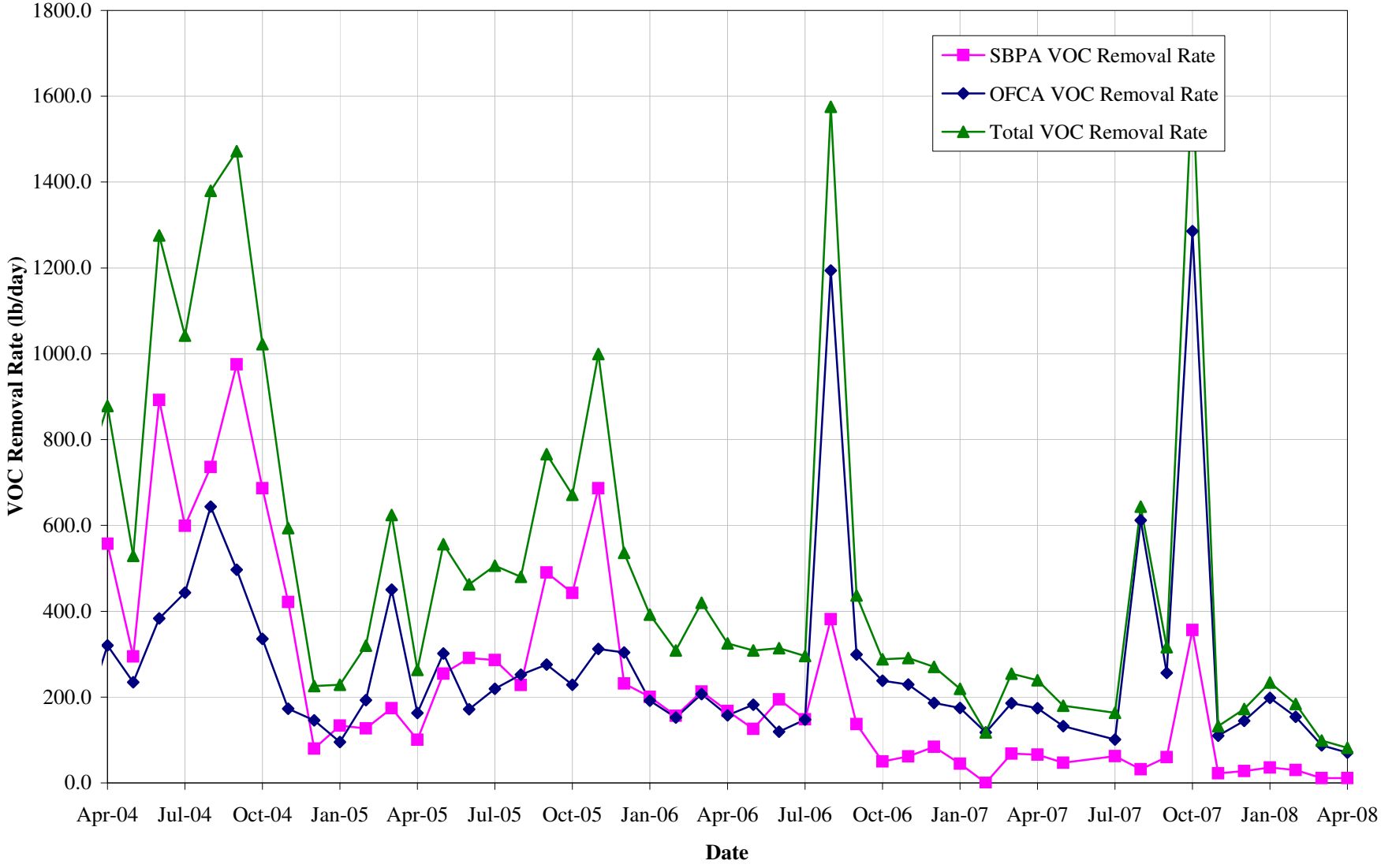
Date	Off-Site Area										
	Target Level	P-96	P-110	P-112	P-113	P-114	P-116	P-118	AS-7	AS-8	AS-9
1/11/2008	626.0	621.2	627.2	626.8	627.0	627.5	627.2	626.9	NM	NM	NM
1/28/2008	626.0	621.1	627.4	626.9	627.5	628.1	628.1	627.2	NM	NM	NM
1/30/2008	626.0	NM	NM	NM	NM	NM	NM	NM	627.82	627.55	NM
2/7/2008	626.0	621.5	627.9	627.0	627.5	628.1	628.1	627.4	NM	NM	NM
2/22/2008	626.0	621.1	627.5	626.9	627.1	627.8	627.2	627.1	627.92	625.04	NM
3/6/2008	626.0	620.8	626.6	626.2	626.6	627.3	626.2	626.6	NM	NM	NM
3/21/2008	626.0	621.3	627.0	626.5	626.9	627.4	626.6	627.6	NM	NM	NM
3/24/2008	626.0	NM	NM	NM	NM	NM	NM	NM	627.66	627.50	627.37

Notes:

All water level elevations are in feet AMSL.

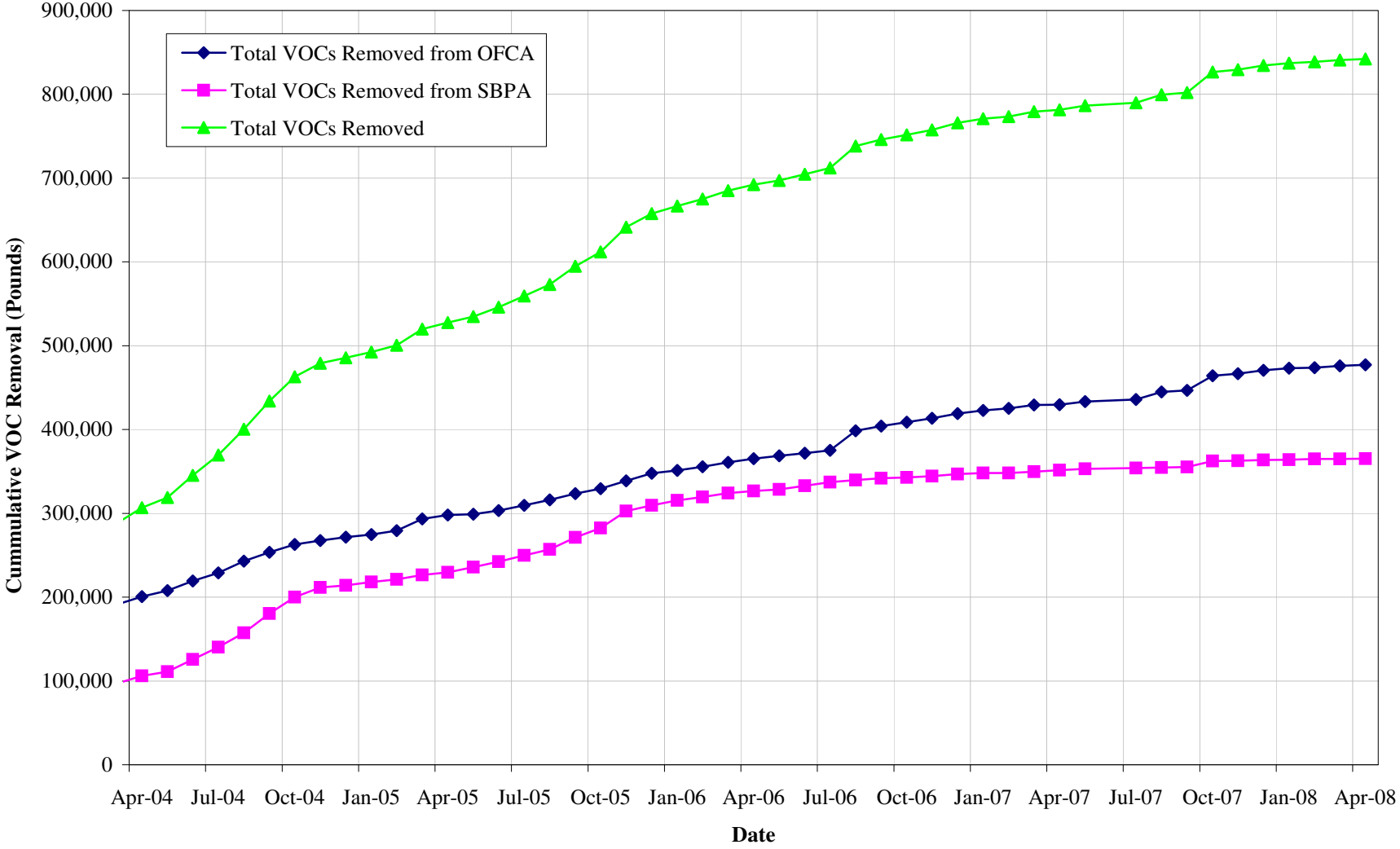
FIGURES

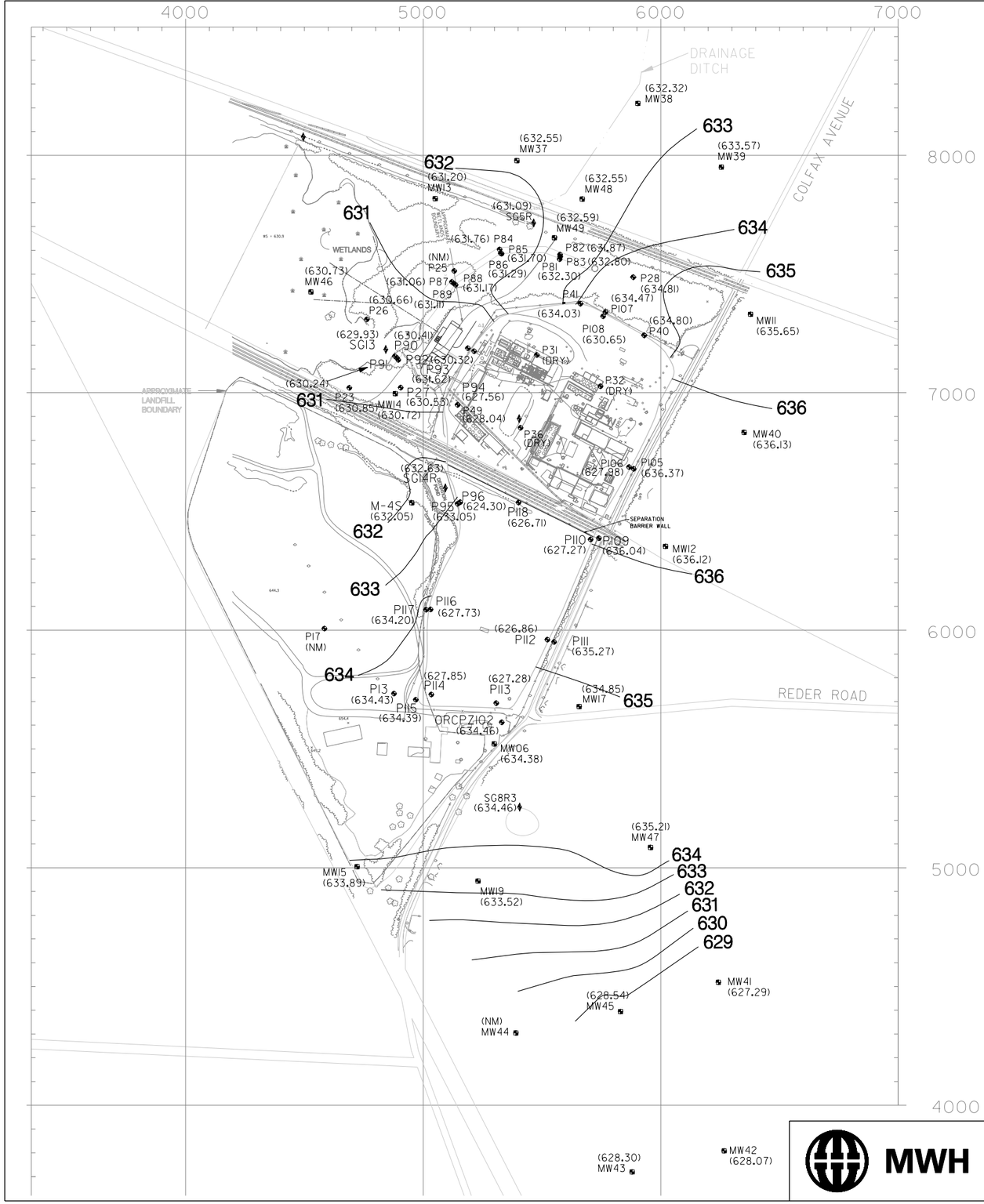
Figure 3.1
VOC Removal Rate
American Chemical Services NPL Site, Griffith, IN



DLA/CDC/JDP
J:\405\0577 ACS\0201 Engr\05770201a136.xls\Figure 3.1

Figure 3.2
Total VOCs Removed
American Chemical Services NPL Site, Griffith, IN





LEGEND

———	BARRIER WALL
	PERIMETER GROUND WATER CONTAINMENT SYSTEM
MW13	UPPER AQUIFER WELL LOCATION AND DESIGNATION
P25	PIEZOMETER LOCATION AND DESIGNATION
SG5R	STAFF GAUGE LOCATION AND DESIGNATION
(635.65)	GROUNDWATER ELEVATION
(DRY)	WELL WAS DRY
(NM)	GROUNDWATER ELEVATION WAS NOT MEASURED

NOTES:

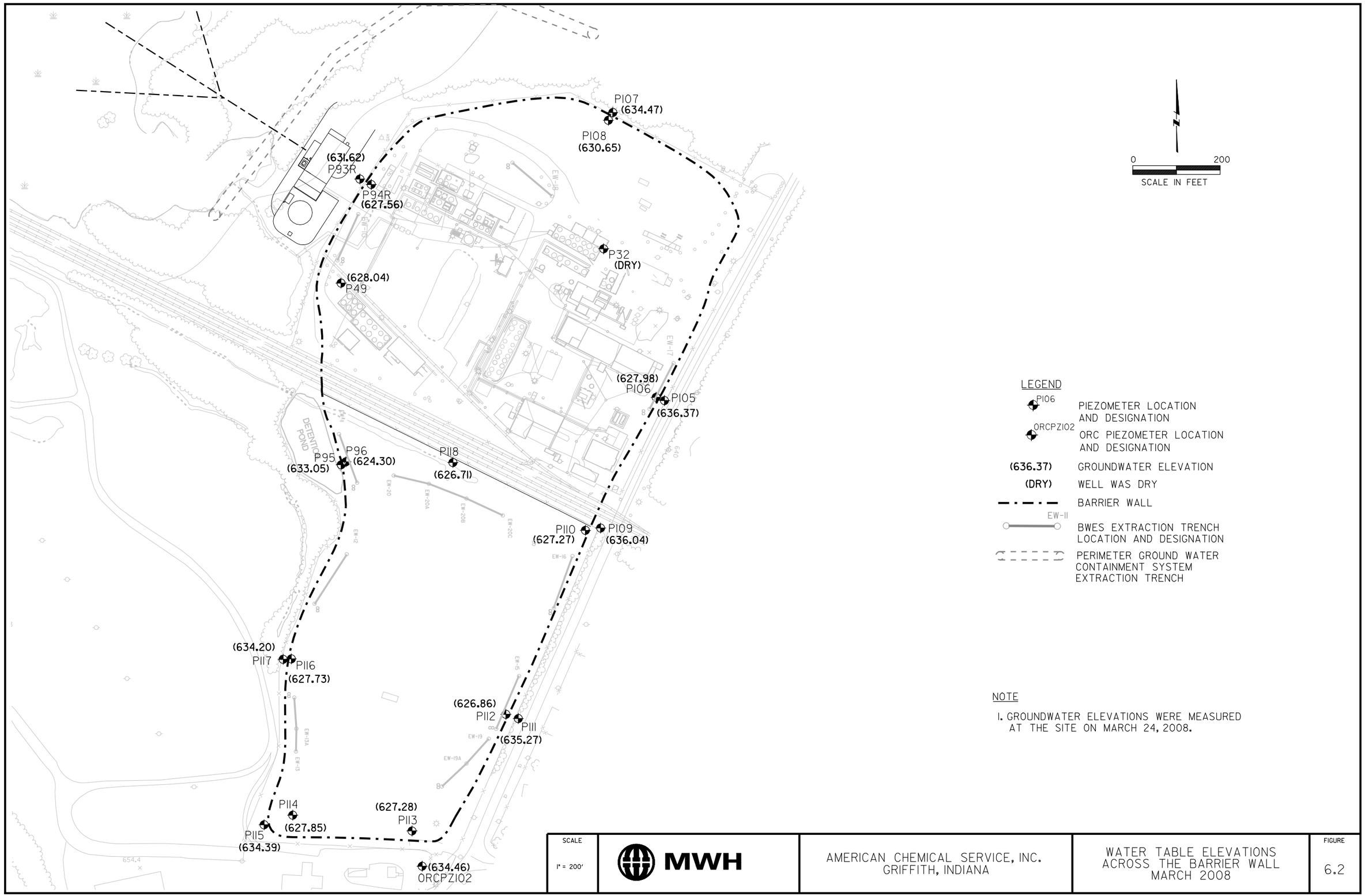
1. P93 AND P94 WERE INSTALLED IN NOVEMBER 2004.
2. GROUNDWATER ELEVATIONS WERE MEASURED ON MARCH 24, 2008.
3. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

0 500 1000

SCALE IN FEET

MWH	SCALE			FIGURE
	AS SHOWN	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	UPPER AQUIFER WATER TABLE CONTOUR MAP MARCH 2008	6.1

JOB No. MW Job No. FILE: \uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder•1•st Quarter 2008\Figure 6.1.dgn Plot Date: 28-July-08 $$time$$ DPP/JEF

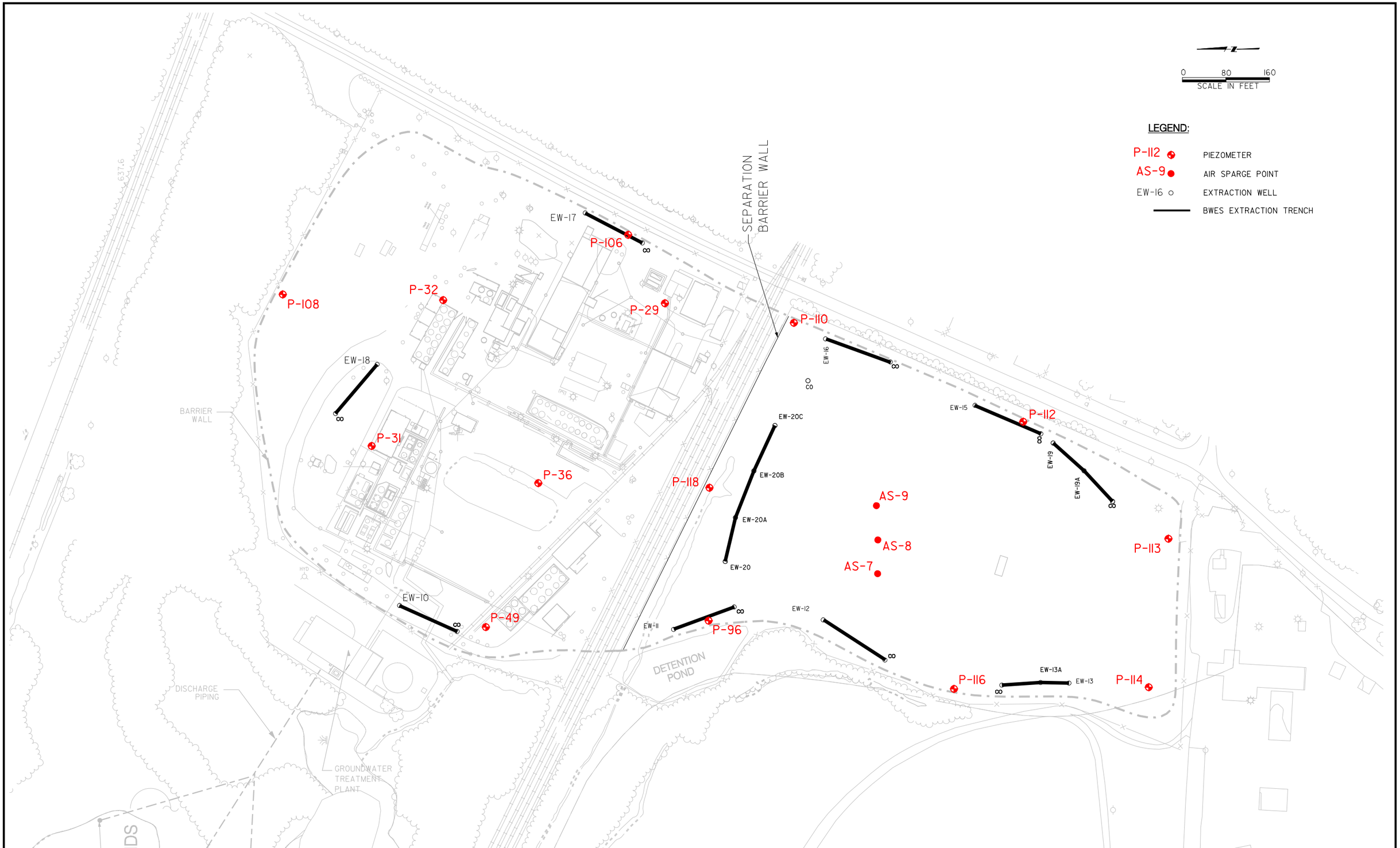


NOTE

1. GROUNDWATER ELEVATIONS WERE MEASURED AT THE SITE ON MARCH 24, 2008.

SCALE			FIGURE
1" = 200'	MWH	AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA	WATER TABLE ELEVATIONS ACROSS THE BARRIER WALL MARCH 2008	6.2

JOB No. MW Job No. FILE: \\uschl4s02\warrenville\Jobs\405\0577 ACS\Master Drawings folder\0201\1st Quarter 2008\Figure 6.2 May08.dgn Plot Date: 16-MAY-2008 10:01 DPP/JEF



REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN

DESIGNED RAA
DRAWN CAD
CHECKED

SUBMITTED BY
ROBERT A. ADAMS (PROJECT MANAGER) LICENSE NO. DATE
(COMPANY OFFICER) LICENSE NO. DATE

MWH MONTGOMERY WATSON HARZA

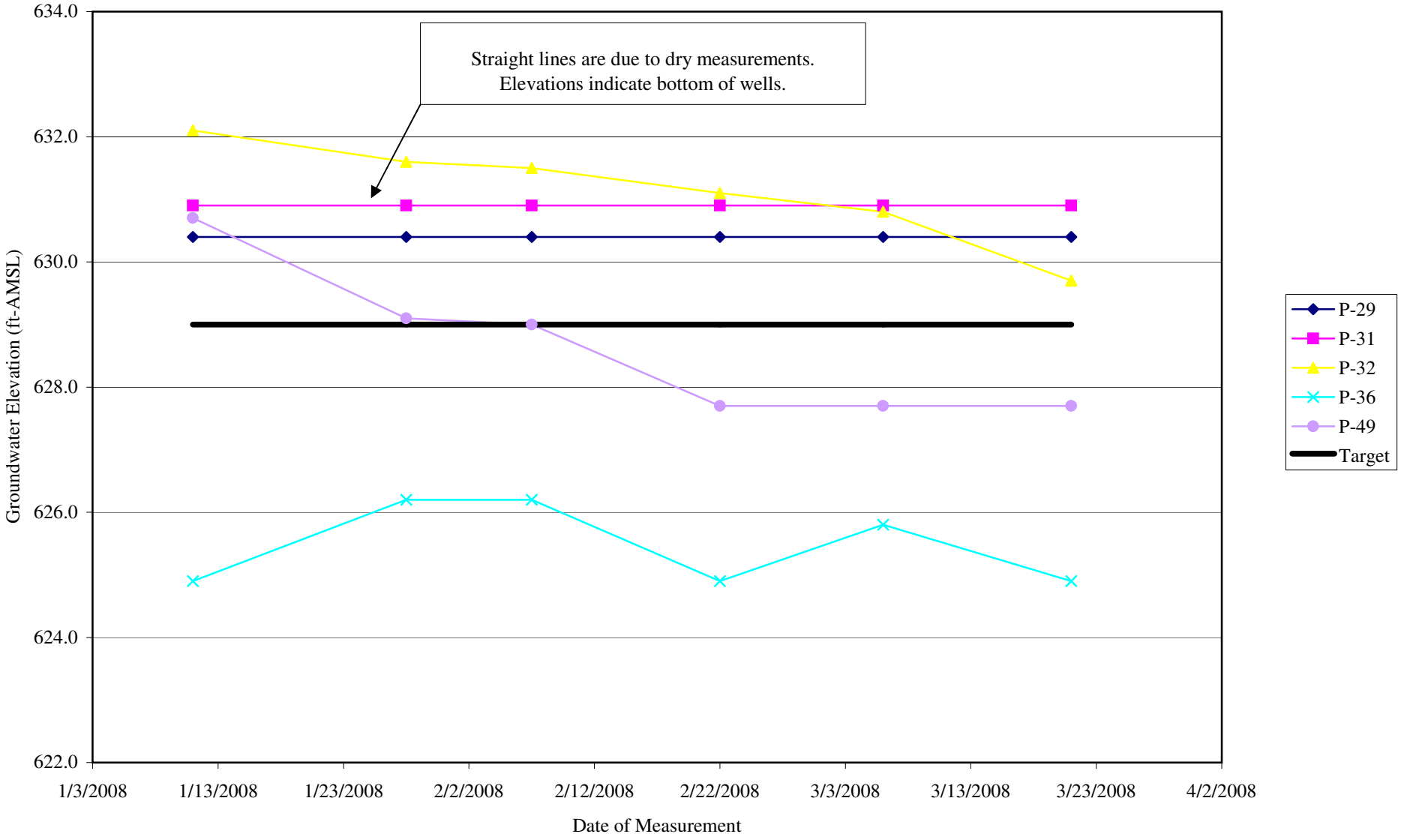
AMERICAN CHEMICAL SERVICE SUPERFUND SITE
GRIFFITH, INDIANA

GROUNDWATER LEVEL MEASURING LOCATIONS

FIGURE 6.3

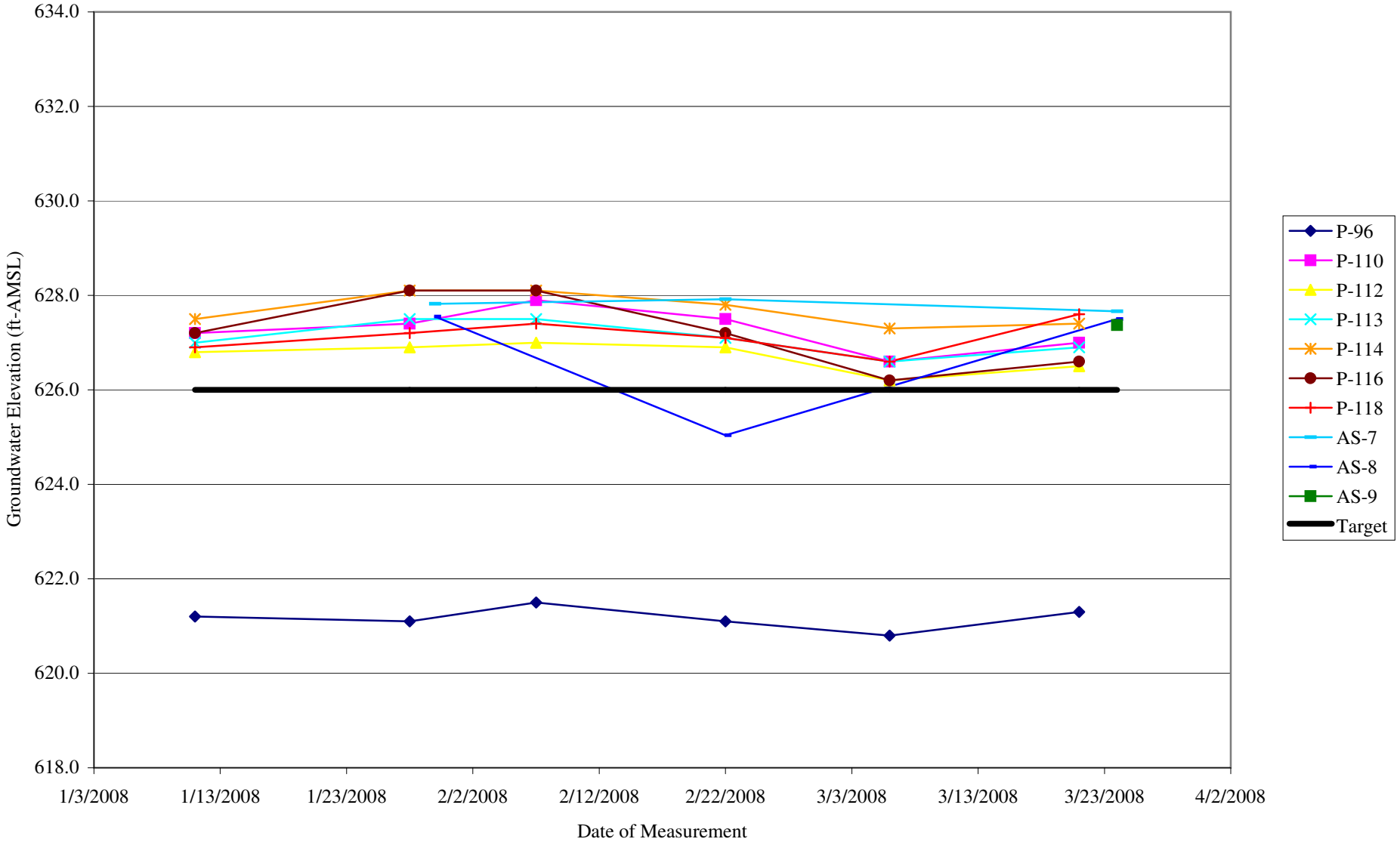
File: J:/405/0577 ACS/master cadd files/020I/3rd quarter 2006/figure63.dgn Plot Date: 19-MAR-2007 11:34

Figure 6.4
Water Level Trends Inside the Barrier Wall (Still Bottoms Pond Area)
ACS NPL Site
Griffith, Indiana



JEF/JDP
J:\405\0577 ACS\0201 Engr\05770201a134.xls\SBPA GW Trends

Figure 6.5
Water Level Trends Inside the Barrier Wall (Off-Site Area)
ACS NPL Site
Griffith, Indiana



JEF/JDP
J:\405\0577 ACS\0201 Engr\05770201a134.xls\Off-Site GW Trends

APPENDIX A

EFFLUENT ANALYTICAL DATA

January 7, 2008 Compliance Sample
Laboratory Results

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, January 16, 2008*

Client: MWH, Inc.
Client Project: Quarterly GWTP / ACS - Jan 2008
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0801177-01
Collection Date: 01/07/08 12:30
Date Received: 01/07/08 13:55

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
PCB'S	Method: **SW8082**				Prep Date/Time: **01/10/08 11:01**		Analyst: **ALS**	
Aroclor 1016	A	*ND*	0.00011	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1221	A	*ND*	0.00051	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1232	A	*ND*	0.00051	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1242	A	*ND*	0.00010	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1248	A	*ND*	0.00014	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1254	A	*ND*	0.00017	0.00051		mg/L	1	01/14/08 19:59
Aroclor 1260	A	*ND*	0.00011	0.00051		mg/L	1	01/14/08 19:59
Surr: Tetrachloro-m-xylene	S	90.0	0	7.58-153		%REC	1	01/14/08 19:59
Surr: Decachlorobiphenyl	S	75.0	0	15.4-169		%REC	1	01/14/08 19:59
TOTAL METALS	Method: **SW6010B**				Prep Date/Time: **01/08/08 07:00**		Analyst: **AVC**	
Arsenic	A	*ND*	0.0025	0.010		mg/L	1	01/08/08 17:22
Beryllium	A	*ND*	00000000014	0.0010		mg/L	1	01/08/08 17:22
Cadmium	A	*0.0020*	0.00030	0.0020	b	mg/L	1	01/08/08 17:22 UB
Manganese	A	*0.060*	0.00030	0.0020		mg/L	1	01/08/08 17:22
Selenium	A	*ND*	0.0053	0.030		mg/L	1	01/08/08 17:22
Thallium	A	*ND*	0.0043	0.050		mg/L	1	01/08/08 17:22
Zinc	A	*ND*	0.0073	0.020		mg/L	1	01/08/08 17:22
TOTAL METALS	Method: **SW7470A**				Prep Date/Time: **01/11/08 07:55**		Analyst: **AVC**	
Mercury	A	*ND*	0.000030	0.00020		mg/L	1	01/11/08 11:34
SEMIVOLATILE ORGANICS	Method: **SW8270C**				Prep Date/Time: **01/09/08 01:47**		Analyst: **BEM**	
Bis(2-ethylhexyl)phthalate	A	*ND*	0.00056	0.0051		mg/L	1	01/09/08 21:30
Bis(2-chloroethyl)ether	A	*ND*	0.00046	0.0051		mg/L	1	01/09/08 21:30
Isophorone	A	*ND*	0.00051	0.0051		mg/L	1	01/09/08 21:30
3/4-Methylphenol	A	*ND*	0.00041	0.0051		mg/L	1	01/09/08 21:30
Pentachlorophenol	A	*ND*	0.00066	0.026		mg/L	1	01/09/08 21:30 UJ
Surr: Nitrobenzene-d5	S	29.8	0	10-121		%REC	1	01/09/08 21:30
Surr: 2-Fluorobiphenyl	S	34.3	0	10-109		%REC	1	01/09/08 21:30
Surr: Terphenyl-d14	S	39.3	0	10-130		%REC	1	01/09/08 21:30
Surr: Phenol-d5	S	11.6	0	10-100		%REC	1	01/09/08 21:30
Surr: 2-Fluorophenol	S	15.9	0	10-84.7		%REC	1	01/09/08 21:30
Surr: 2,4,6-Tribromophenol	S	56.4	0	10-120		%REC	1	01/09/08 21:30
VOC'S	Method: **SW8260B**				Prep Date/Time:		Analyst: **BRR**	
Acetone	A	*ND*	0.0020	0.0050		mg/L	1	01/10/08 16:27 UJ

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

hm 02/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, January 16, 2008*

Client: MWH, Inc.
Client Project: Quarterly GWTP / ACS - Jan 2008
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0801177-01
Collection Date: 01/07/08 12:30
Date Received: 01/07/08 13:55

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **BRR**	
Benzene	A	*ND*	0.00030	0.0010		mg/L	1	01/10/08 16:27	
2-Butanone	A	*ND*	0.0015	0.0020		mg/L	1	01/10/08 16:27	UJ
Chloromethane	A	*ND*	0.00030	0.0020		mg/L	1	01/10/08 16:27	
1,1-Dichloroethane	A	*0.00052*	0.00030	0.0010	J	mg/L	1	01/10/08 16:27	
cis-1,2-Dichloroethene	A	*ND*	0.00040	0.0010		mg/L	1	01/10/08 16:27	
Ethylbenzene	A	*ND*	0.00020	0.0010		mg/L	1	01/10/08 16:27	
4-Methyl-2-Pentanone	A	*ND*	0.00080	0.0010		mg/L	1	01/10/08 16:27	UJ
Methylene chloride	A	*ND*	0.00070	0.0020		mg/L	1	01/10/08 16:27	
Tetrachloroethene	A	*ND*	0.00040	0.0010		mg/L	1	01/10/08 16:27	
Trichloroethene	A	*ND*	0.00030	0.0010		mg/L	1	01/10/08 16:27	
Vinyl chloride	A	*0.00073*	0.00040	0.0020	J	mg/L	1	01/10/08 16:27	
1,4-Dichlorobenzene	A	*ND*	0.00020	0.0010		mg/L	1	01/10/08 16:27	
Surr: 4-Bromofluorobenzene	S	93.6	0	74.3-123		%REC	1	01/10/08 16:27	
Surr: Dibromofluoromethane	S	103	0	84.9-118		%REC	1	01/10/08 16:27	
Surr: 1,2-Dichloroethane-d4	S	118	0	77.9-126		%REC	1	01/10/08 16:27	
Surr: Toluene-d8	S	98.7	0	80.8-118		%REC	1	01/10/08 16:27	
BOD, 5 DAY	Method: **5210B_18ED**			Prep Date/Time: **01/07/08 13:00**				Analyst: **BJH**	
Biochemical Oxygen Demand	A	*ND*	2.0	2.0		mg/L	1	01/07/08 00:00	
PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **RJC**	
pH	A	*6.84*	0.02	0.02	H	pH units	1	01/07/08 22:30	
TOTAL SUSPENDED SOLIDS	Method: **2540D_18ED**			Prep Date/Time:				Analyst: **TMG**	
Total Suspended Solids	A	*4.1*	1.0	1.0		mg/L	1	01/10/08 16:46	

MUO 1508

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

February 15, 2008 Compliance Sample
Laboratory Results

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 22, 2008*

Client: MWH, Inc.
Client Project: GWTP - Monthly / ACS
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0802565-01
Collection Date: 02/15/08 14:55
Date Received: 02/15/08 15:40

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Acetone	A	ND	0.0020	0.0050	UJ	mg/L	1	02/22/08 16:07
Benzene	A	ND	0.00030	0.0010		mg/L	1	02/22/08 16:07
2-Butanone	A	ND	0.0015	0.0020	UJ	mg/L	1	02/22/08 16:07
Chloromethane	A	0.0014	0.00030	0.0020	J	mg/L	1	02/22/08 16:07
1,1-Dichloroethane	A	ND	0.00030	0.0010		mg/L	1	02/22/08 16:07
cis-1,2-Dichloroethene	A	ND	0.00040	0.0010		mg/L	1	02/22/08 16:07
Ethylbenzene	A	ND	0.00020	0.0010		mg/L	1	02/22/08 16:07
4-Methyl-2-Pentanone	A	ND	0.00080	0.0010	UJ	mg/L	1	02/22/08 16:07
Methylene chloride	A	0.0011	0.00070	0.0020	J	mg/L	1	02/22/08 16:07
Tetrachloroethene	A	ND	0.00040	0.0010		mg/L	1	02/22/08 16:07
Trichloroethene	A	ND	0.00030	0.0010		mg/L	1	02/22/08 16:07
Vinyl chloride	A	ND	0.00040	0.0020		mg/L	1	02/22/08 16:07
1,4-Dichlorobenzene	A	ND	0.00020	0.0010		mg/L	1	02/22/08 16:07
Surr: 4-Bromofluorobenzene	S	87.9	0	74.3-123		%REC	1	02/22/08 16:07
Surr: Dibromofluoromethane	S	105	0	84.9-118		%REC	1	02/22/08 16:07
Surr: 1,2-Dichloroethane-d4	S	118	0	77.9-126		%REC	1	02/22/08 16:07
Surr: Toluene-d8	S	106	0	80.8-118		%REC	1	02/22/08 16:07
PH	Method:	**4500H B/9040C**		Prep Date/Time:				Analyst: **RJC**
pH	A	7.00	0.02	0.02	H	pH units	1	02/15/08 22:30

3/26/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 22, 2008*

Client: MWH, Inc.
Client Project: GWTP - Monthly / ACS
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0802565-01
Collection Date: 02/15/08 14:55
Date Received: 02/15/08 15:40

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Acetone	A	***ND***	0.0020	0.0050		mg/L	1	02/22/08 16:07
Benzene	A	***ND***	0.00030	0.0010		mg/L	1	02/22/08 16:07
2-Butanone	A	***ND***	0.0015	0.0020		mg/L	1	02/22/08 16:07
Chloromethane	A	***0.0014***	0.00030	0.0020	J	mg/L	1	02/22/08 16:07
1,1-Dichloroethane	A	***ND***	0.00030	0.0010		mg/L	1	02/22/08 16:07
cis-1,2-Dichloroethene	A	***ND***	0.00040	0.0010		mg/L	1	02/22/08 16:07
Ethylbenzene	A	***ND***	0.00020	0.0010		mg/L	1	02/22/08 16:07
4-Methyl-2-Pentanone	A	***ND***	0.00080	0.0010		mg/L	1	02/22/08 16:07
Methylene chloride	A	***0.0011***	0.00070	0.0020	J	mg/L	1	02/22/08 16:07
Tetrachloroethene	A	***ND***	0.00040	0.0010		mg/L	1	02/22/08 16:07
Trichloroethene	A	***ND***	0.00030	0.0010		mg/L	1	02/22/08 16:07
Vinyl chloride	A	***ND***	0.00040	0.0020		mg/L	1	02/22/08 16:07
1,4-Dichlorobenzene	A	***ND***	0.00020	0.0010		mg/L	1	02/22/08 16:07
Surr: 4-Bromofluorobenzene	S	87.9	0	74.3-123		%REC	1	02/22/08 16:07
Surr: Dibromofluoromethane	S	105	0	84.9-118		%REC	1	02/22/08 16:07
Surr: 1,2-Dichloroethane-d4	S	118	0	77.9-126		%REC	1	02/22/08 16:07
Surr: Toluene-d8	S	106	0	80.8-118		%REC	1	02/22/08 16:07

PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **RJC**
pH	A	***7.00***	0.02	0.02	H	pH units	1	02/15/08 22:30

3/26/07

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

March 6, 2008 Compliance Sample
Laboratory Results

Microbac®

ANALYTICAL RESULTS

Date: *Wednesday, March 12, 2008*

Client: MWH, Inc.
Client Project: GWTP - Monthly / ACS
Client Sample ID: EFFLUENT
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0803267-01
Collection Date: 03/06/08 13:30
Date Received: 03/06/08 15:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Acetone	A	*0.0042*	0.0020	0.0050	J	mg/L	1	03/06/08 17:28
Benzene	A	*ND*	0.00030	0.0010		mg/L	1	03/06/08 17:28
2-Butanone	A	*ND*	0.0015	0.0020		mg/L	1	03/06/08 17:28
Chloromethane	A	*0.0058*	0.00030	0.0020		mg/L	1	03/06/08 17:28
1,1-Dichloroethane	A	*0.0010*	0.00030	0.0010		mg/L	1	03/06/08 17:28
cis-1,2-Dichloroethene	A	*0.00077*	0.00040	0.0010	J	mg/L	1	03/06/08 17:28
Ethylbenzene	A	*ND*	0.00020	0.0010		mg/L	1	03/06/08 17:28
4-Methyl-2-Pentanone	A	*ND*	0.00080	0.0010		mg/L	1	03/06/08 17:28
Methylene chloride	A	*0.0015*	0.00070	0.0020	J	mg/L	1	03/06/08 17:28
Tetrachloroethene	A	*ND*	0.00040	0.0010		mg/L	1	03/06/08 17:28
Trichloroethene	A	*ND*	0.00030	0.0010		mg/L	1	03/06/08 17:28
Vinyl chloride	A	*0.00045*	0.00040	0.0020	J	mg/L	1	03/06/08 17:28
1,4-Dichlorobenzene	A	*ND*	0.00020	0.0010		mg/L	1	03/06/08 17:28
Surr: 4-Bromofluorobenzene	S	92.3	0	75.2-115		%REC	1	03/06/08 17:28
Surr: Dibromofluoromethane	S	98.2	0	92.7-119		%REC	1	03/06/08 17:28
Surr: 1,2-Dichloroethane-d4	S	101	0	88.2-132		%REC	1	03/06/08 17:28
Surr: Toluene-d8	S	102	0	89.3-116		%REC	1	03/06/08 17:28
PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **RJC**
~~pH~~	~~A~~	~~*7.43*~~	~~0.02~~	~~0.02~~	~~H~~	~~pH units~~	~~1~~	~~03/10/08 23:35~~

4/7/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Wednesday, March 12, 2008*

Client: MWH, Inc.
Client Project: GWTP - Monthly / ACS
Client Sample ID: EFFLUENT
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0803267-01
Collection Date: 03/06/08 13:30
Date Received: 03/06/08 15:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Acetone	A	***0.0042***	0.0020	0.0050	J	mg/L	1	03/06/08 17:28
Benzene	A	***ND***	0.00030	0.0010		mg/L	1	03/06/08 17:28
2-Butanone	A	***ND***	0.0015	0.0020		mg/L	1	03/06/08 17:28
Chloromethane	A	***0.0058***	0.00030	0.0020		mg/L	1	03/06/08 17:28
1,1-Dichloroethane	A	***0.0010***	0.00030	0.0010		mg/L	1	03/06/08 17:28
cis-1,2-Dichloroethene	A	***0.00077***	0.00040	0.0010	J	mg/L	1	03/06/08 17:28
Ethylbenzene	A	***ND***	0.00020	0.0010		mg/L	1	03/06/08 17:28
4-Methyl-2-Pentanone	A	***ND***	0.00080	0.0010		mg/L	1	03/06/08 17:28
Methylene chloride	A	***0.0015***	0.00070	0.0020	J	mg/L	1	03/06/08 17:28
Tetrachloroethene	A	***ND***	0.00040	0.0010		mg/L	1	03/06/08 17:28
Trichloroethene	A	***ND***	0.00030	0.0010		mg/L	1	03/06/08 17:28
Vinyl chloride	A	***0.00045***	0.00040	0.0020	J	mg/L	1	03/06/08 17:28
1,4-Dichlorobenzene	A	***ND***	0.00020	0.0010		mg/L	1	03/06/08 17:28
Surr: 4-Bromofluorobenzene	S	92.3	0	75.2-115		%REC	1	03/06/08 17:28
Surr: Dibromofluoromethane	S	98.2	0	92.7-119		%REC	1	03/06/08 17:28
Surr: 1,2-Dichloroethane-d4	S	101	0	88.2-132		%REC	1	03/06/08 17:28
Surr: Toluene-d8	S	102	0	89.3-116		%REC	1	03/06/08 17:28

PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **RJC**
pH	A	***7.43***	0.02	0.02	H	pH units	1	03/10/08 23:35

J

4/7/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

APPENDIX B

THERMAL OXIDIZER OFF-GAS ANALYTICAL DATA

January 10, 2008 Off-Gas Sample Laboratory Results

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-01A
Collection Date: 01/10/08 13:10
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,1,1-Trichloroethane	A	*16000*	92	580		ppbv	,20	02/09/08 03:17
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	02/08/08 21:31
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	02/08/08 21:31
1,1-Dichloroethane	A	*6600*	58	580		ppbv	600	02/08/08 20:47
1,1-Dichloroethene	A	*130*	4.2	30		ppbv	60	02/08/08 21:31
1,2-Dichloroethane	A	*690*	6	30		ppbv	60	02/08/08 21:31
1,2-Dichloropropane	A	*150*	5.4	30		ppbv	60	02/08/08 21:31
2-Butanone	A	*6500*	120	1200		ppbv	600	02/08/08 20:47
2-Hexanone	A	*1400*	J 63	1200		ppbv	600	02/08/08 20:47
4-Methyl-2-Pentanone	A	*9300*	180	580		ppbv	,20	02/09/08 03:17
Acetone	A	*11000*	B 69	1200		ppbv	600	02/08/08 20:47
Benzene	A	*9800*	58	290		ppbv	600	02/08/08 20:47
Bromodichloromethane	A	*20*	6	30	J	ppbv	60	02/08/08 21:31
Bromoform	A	*ND*	5.4	30		ppbv	60	02/08/08 21:31
Bromomethane	A	*ND*	4.8	60		ppbv	60	02/08/08 21:31
Carbon disulfide	A	*700*	20	30		ppbv	60	02/08/08 21:31
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	02/08/08 21:31
Chlorobenzene	A	*41*	6.6	30		ppbv	60	02/08/08 21:31
Chloroethane	A	*140*	6.6	30		ppbv	60	02/08/08 21:31
Chloroform	A	*1900*	63	290		ppbv	600	02/08/08 20:47
Chloromethane	A	*45*	4.2	120	J	ppbv	60	02/08/08 21:31
cis-1,2-Dichloroethene	A	*2000*	52	290		ppbv	600	02/08/08 20:47
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	02/08/08 21:31
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	02/08/08 21:31
Ethyl benzene	A	*14000*	130	580		ppbv	,20	02/09/08 03:17
m,p-Xylene	A	*35000*	320	2500		ppbv	,00	02/08/08 20:05
Methylene chloride	A	*23000*	B 1100	10000		ppbv	,00	02/08/08 20:05
o-Xylene	A	*22000*	150	580		ppbv	,20	02/09/08 03:17
Styrene	A	*1100*	7.8	30		ppbv	60	02/08/08 21:31
Tetrachloroethene	A	*13000*	270	1200		ppbv	,00	02/08/08 20:05
Toluene	A	*170000*	J 2000	9000		ppbv	3,00	02/09/08 06:41
trans-1,2-Dichloroethene	A	*37*	4.8	30		ppbv	60	02/08/08 21:31
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	02/08/08 21:31
Trichloroethene	A	*10000*	130	580		ppbv	,20	02/09/08 03:17
Vinyl chloride	A	*310*	4.8	30		ppbv	60	02/08/08 21:31
Surr: 4-Bromofluorobenzene	S	77.9	0	77.7-127		%REC	60	02/08/08 21:31

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-01B
Collection Date: 01/10/08 13:10
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*1.1*	0.9	10	J	µg, Total	1	01/21/08 21:24
1,2-Dichlorobenzene	A	*16*	0.7	10		µg, Total	1	01/21/08 21:24
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	01/21/08 21:24
1,4-Dichlorobenzene	A	*2.3*	0.9	10	J	µg, Total	1	01/21/08 21:24
2,4,5-Trichlorophenol	A	*ND*	R 1.5	10		µg, Total	1	01/21/08 21:24
2,4,6-Trichlorophenol	A	*ND*	R 0.9	10		µg, Total	1	01/21/08 21:24
2,4-Dichlorophenol	A	*ND*	R 0.7	10		µg, Total	1	01/21/08 21:24
2,4-Dimethylphenol	A	*ND*	R 0.8	10		µg, Total	1	01/21/08 21:24
2,4-Dinitrophenol	A	*ND*	R 9.4	50		µg, Total	1	01/21/08 21:24
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	01/21/08 21:24
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	01/21/08 21:24
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
2-Chlorophenol	A	*ND*	R 0.7	10		µg, Total	1	01/21/08 21:24
2-Methylnaphthalene	A	*5.6*	0.9	10	J	µg, Total	1	01/21/08 21:24
2-Methylphenol	A	*ND*	R 0.7	10		µg, Total	1	01/21/08 21:24
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	01/21/08 21:24
2-Nitrophenol	A	*ND*	R 1	10		µg, Total	1	01/21/08 21:24
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	01/21/08 21:24
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	01/21/08 21:24
3/4-Methylphenol	A	*ND*	R 0.8	10		µg, Total	1	01/21/08 21:24
4,6-Dinitro-2-methylphenol	A	*ND*	R 1.1	50		µg, Total	1	01/21/08 21:24
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
4-Chloro-3-methylphenol	A	*ND*	R 1.2	20		µg, Total	1	01/21/08 21:24
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	01/21/08 21:24
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	01/21/08 21:24
4-Nitrophenol	A	*ND*	R 4.3	50		µg, Total	1	01/21/08 21:24
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	01/21/08 21:24
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
Bis(2-ethylhexyl)phthalate	A	*3.3*	10UB 1.1	10	Jb	µg, Total	1	01/21/08 21:24
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	01/21/08 21:24
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	01/21/08 21:24
Di-n-octyl phthalate	A	*ND*	UJ 1.1	10		µg, Total	1	01/21/08 21:24
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	01/21/08 21:24
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	01/21/08 21:24
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:24
Hexachlorobutadiene	A	*2.7*	0.9	10	J	µg, Total	1	01/21/08 21:24
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	01/21/08 21:24

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-01B
Collection Date: 01/10/08 13:10
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	ND	0.9	10		µg, Total	1	01/21/08 21:24
Isophorone	A	22	1	10		µg, Total	1	01/21/08 21:24
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	01/21/08 21:24
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	01/21/08 21:24
Nitrobenzene	A	ND	1	10		µg, Total	1	01/21/08 21:24
Pentachlorophenol	A	ND R	1.3	50		µg, Total	1	01/21/08 21:24
Phenol	A	ND R	0.4	10		µg, Total	1	01/21/08 21:24
Surr: 2,4,6-Tribromophenol	S	0.873	0	30-130	S	%REC	1	01/21/08 21:24
Surr: 2-Fluorobiphenyl	S	73.0	0	30-130		%REC	1	01/21/08 21:24
Surr: 2-Fluorophenol	S	0.287	0	30-130	S	%REC	1	01/21/08 21:24
Surr: Nitrobenzene-d5	S	68.1	0	30-130		%REC	1	01/21/08 21:24
Surr: Phenol-d5	S	35.2	0	30-130		%REC	1	01/21/08 21:24
Surr: Terphenyl-d14	S	77.0	0	30-130		%REC	1	01/21/08 21:24

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Acenaphthene	A	ND	0.21	1.0		µg, Total	1	01/22/08 00:38	
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	01/22/08 00:38	
Anthracene	A	ND	0.27	1.0		µg, Total	1	01/22/08 00:38	UJ
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	01/22/08 00:38	UJ
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	01/22/08 00:38	
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	01/22/08 00:38	
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	01/22/08 00:38	
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	01/22/08 00:38	
Chrysene	A	ND	0.57	1.0		µg, Total	1	01/22/08 00:38	UJ
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	01/22/08 00:38	UJ
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	01/22/08 00:38	UJ
Fluorene	A	ND	0.25	1.0		µg, Total	1	01/22/08 00:38	
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	01/22/08 00:38	UJ
Naphthalene	A	40	0.16	1.0		µg, Total	1	01/22/08 00:38	
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	01/22/08 00:38	UJ
Pyrene	A	ND	0.44	1.0		µg, Total	1	01/22/08 00:38	UJ
Surr: Nitrobenzene-d5	S	93.1	0	30-130		%REC	1	01/22/08 00:38	
Surr: 2-Fluorobiphenyl	S	86.8	0	30-130		%REC	1	01/22/08 00:38	
Surr: Terphenyl-d14	S	84.4	0	30-130		%REC	1	01/22/08 00:38	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/7/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-02A
Collection Date: 01/10/08 13:12
Date Received: 01/10/08 16:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**	
1,1,1-Trichloroethane	A	*9100*	46	290		ppbv	600	02/08/08 22:53	
1,1,2,2-Tetrachloroethane	A	*26*	8.4	30	J	ppbv	60	02/08/08 23:38	
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	02/08/08 23:38	
1,1-Dichloroethane	A	*3100*	58	580		ppbv	600	02/08/08 22:53	
1,1-Dichloroethene	A	*120*	4.2	30		ppbv	60	02/08/08 23:38	
1,2-Dichloroethane	A	*220*	6	30		ppbv	60	02/08/08 23:38	
1,2-Dichloropropane	A	*180*	5.4	30		ppbv	60	02/08/08 23:38	
2-Butanone	A	*ND*	13	120		ppbv	60	02/08/08 23:38	
2-Hexanone	A	*ND*	6.6	120		ppbv	60	02/08/08 23:38	
4-Methyl-2-Pentanone	A	*1500*	92	290		ppbv	600	02/08/08 22:53	
Acetone	A	*540*	7.2	120		ppbv	60	02/08/08 23:38	uB
Benzene	A	*1500*	58	290		ppbv	600	02/08/08 22:53	
Bromodichloromethane	A	*ND*	6	30		ppbv	60	02/08/08 23:38	
Bromoform	A	*ND*	5.4	30		ppbv	60	02/08/08 23:38	
Bromomethane	A	*ND*	4.8	60		ppbv	60	02/08/08 23:38	
Carbon disulfide	A	*1500*	190	290		ppbv	600	02/08/08 22:53	
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	02/08/08 23:38	
Chlorobenzene	A	*43*	6.6	30		ppbv	60	02/08/08 23:38	
Chloroethane	A	*780*	6.6	30		ppbv	60	02/08/08 23:38	
Chloroform	A	*2800*	63	290		ppbv	600	02/08/08 22:53	
Chloromethane	A	*ND*	4.2	120		ppbv	60	02/08/08 23:38	
cis-1,2-Dichloroethene	A	*11000*	52	290		ppbv	600	02/08/08 22:53	
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	02/08/08 23:38	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	02/08/08 23:38	
Ethyl benzene	A	*7700*	63	290		ppbv	600	02/08/08 22:53	
m,p-Xylene	A	*21000*	300	2300		ppbv	,00	02/08/08 22:12	
Methylene chloride	A	*3000*	250	2300		ppbv	600	02/08/08 22:53	uB
o-Xylene	A	*10000*	300	1200		ppbv	,00	02/08/08 22:12	
Styrene	A	*ND*	7.8	30		ppbv	60	02/08/08 23:38	
Tetrachloroethene	A	*16000*	250	1200		ppbv	,00	02/08/08 22:12	
Toluene	A	*19000*	250	1200		ppbv	,00	02/08/08 22:12	
trans-1,2-Dichloroethene	A	*91*	4.8	30		ppbv	60	02/08/08 23:38	
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	02/08/08 23:38	
Trichloroethene	A	*5900*	63	290		ppbv	600	02/08/08 22:53	
Vinyl chloride	A	*1800*	46	290		ppbv	600	02/08/08 22:53	
Surr: 4-Bromofluorobenzene	S	86.9	0	77.7-127		%REC	60	02/08/08 23:38	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

TK 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-02B
Collection Date: 01/10/08 13:12
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
1,2-Dichlorobenzene	A	5.6	0.7	10	J	µg, Total	1	01/21/08 21:49	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 21:49	
1,4-Dichlorobenzene	A	1.8	0.9	10	J	µg, Total	1	01/21/08 21:49	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 21:49	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	R
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 21:49	↓
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 21:49	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 21:49	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 21:49	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 21:49	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 21:49	R
2-Methylnaphthalene	A	2	0.9	10	J	µg, Total	1	01/21/08 21:49	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 21:49	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 21:49	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 21:49	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 21:49	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 21:49	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 21:49	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 21:49	↓
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 21:49	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 21:49	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 21:49	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 21:49	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 21:49	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
Bis(2-ethylhexyl)phthalate	A	1.1	1.1	10	Jb	µg, Total	1	01/21/08 21:49	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 21:49	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 21:49	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 21:49	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 21:49	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 21:49	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 21:49	
Hexachlorobutadiene	A	5	0.9	10	J	µg, Total	1	01/21/08 21:49	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 21:49	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-02B
Collection Date: 01/10/08 13:12
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	01/21/08 21:49
Isophorone	A	*ND*	1	10		µg, Total	1	01/21/08 21:49
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	01/21/08 21:49
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	01/21/08 21:49
Nitrobenzene	A	*ND*	1	10		µg, Total	1	01/21/08 21:49
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	01/21/08 21:49 R
Phenol	A	*ND*	0.4	10		µg, Total	1	01/21/08 21:49
Surr: 2,4,6-Tribromophenol	S	1.27	0	30-130	S	%REC	1	01/21/08 21:49
Surr: 2-Fluorobiphenyl	S	81.8	0	30-130		%REC	1	01/21/08 21:49
Surr: 2-Fluorophenol	S	0.387	0	30-130	S	%REC	1	01/21/08 21:49
Surr: Nitrobenzene-d5	S	66.2	0	30-130		%REC	1	01/21/08 21:49
Surr: Phenol-d5	S	39.5	0	30-130		%REC	1	01/21/08 21:49
Surr: Terphenyl-d14	S	80.5	0	30-130		%REC	1	01/21/08 21:49

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	01/22/08 01:03
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	01/22/08 01:03
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	01/22/08 01:03 UJ
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	01/22/08 01:03
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	01/22/08 01:03
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	01/22/08 01:03
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	01/22/08 01:03
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	01/22/08 01:03
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	01/22/08 01:03
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	01/22/08 01:03
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	01/22/08 01:03
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	01/22/08 01:03
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	01/22/08 01:03 UJ
Naphthalene	A	*6.8*	0.16	1.0		µg, Total	1	01/22/08 01:03
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	01/22/08 01:03 UJ
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	01/22/08 01:03
Surr: Nitrobenzene-d5	S	91.1	0	30-130		%REC	1	01/22/08 01:03
Surr: 2-Fluorobiphenyl	S	93.7	0	30-130		%REC	1	01/22/08 01:03
Surr: Terphenyl-d14	S	91.0	0	30-130		%REC	1	01/22/08 01:03

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-03A
Collection Date: 01/10/08 13:50
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,1,1-Trichloroethane	A	***18000***	200	1200		ppbv	,00	02/01/08 05:07
1,1,2,2-Tetrachloroethane	A	***140***	8.4	30		ppbv	60	02/01/08 06:30
1,1,2-Trichloroethane	A	***25***	6.6	30	J	ppbv	60	02/01/08 06:30
1,1-Dichloroethane	A	***1400***	29	150		ppbv	300	02/01/08 05:48
1,1-Dichloroethene	A	***73***	4.2	30		ppbv	60	02/01/08 06:30
1,2-Dichloroethane	A	***170***	6	30		ppbv	60	02/01/08 06:30
1,2-Dichloropropane	A	***140***	5.4	30		ppbv	60	02/01/08 06:30
2-Butanone	A	***97***	13	120	J	ppbv	60	02/01/08 06:30 B
2-Hexanone	A	***ND***	6.6	120		ppbv	60	02/01/08 06:30
4-Methyl-2-Pentanone	A	***880***	9.6	30		ppbv	60	02/01/08 06:30
Acetone	A	***290***	7.2	120		ppbv	60	02/01/08 06:30
Benzene	A	***1000***	29	150		ppbv	300	02/01/08 05:48
Bromodichloromethane	A	***ND***	6	30		ppbv	60	02/01/08 06:30
Bromoform	A	***ND***	5.4	30		ppbv	60	02/01/08 06:30
Bromomethane	A	***ND***	4.8	30		ppbv	60	02/01/08 06:30
Carbon disulfide	A	***1500***	97	150		ppbv	300	02/01/08 05:48 J
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	02/01/08 06:30
Chlorobenzene	A	***ND***	6.6	30		ppbv	60	02/01/08 06:30
Chloroethane	A	***83***	6.6	30		ppbv	60	02/01/08 06:30
Chloroform	A	***2300***	32	150		ppbv	300	02/01/08 05:48
Chloromethane	A	***ND***	4.2	120		ppbv	60	02/01/08 06:30
cis-1,2-Dichloroethene	A	***17000***	220	1200		ppbv	,00	02/01/08 05:07
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 06:30
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	02/01/08 06:30
Ethyl benzene	A	***3400***	32	150		ppbv	300	02/01/08 05:48
m,p-Xylene	A	***29000***	320	2500		ppbv	,00	02/01/08 05:07
Methylene chloride	A	***2700***	130	1200		ppbv	300	02/01/08 05:48
o-Xylene	A	***16000***	320	1200		ppbv	,00	02/01/08 05:07
Styrene	A	***92***	7.8	30		ppbv	60	02/01/08 06:30
Tetrachloroethene	A	***24000***	270	1200		ppbv	,00	02/01/08 05:07
Toluene	A	***24000***	270	1200		ppbv	,00	02/01/08 05:07
trans-1,2-Dichloroethene	A	***73***	4.8	30		ppbv	60	02/01/08 06:30
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 06:30
Trichloroethene	A	***5300***	32	150		ppbv	300	02/01/08 05:48
Vinyl chloride	A	***1000***	4.8	30		ppbv	60	02/01/08 06:30
Surr: 4-Bromofluorobenzene	S	119	0	77.7-127		%REC	60	02/01/08 06:30

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BK 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-03B
Collection Date: 01/10/08 13:50
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
1,2-Dichlorobenzene	A	1.3	0.7	10	J	µg, Total	1	01/21/08 22:13	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 22:13	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 22:13	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:13	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 22:13	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 22:13	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 22:13	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 22:13	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:13	R
2-Methylnaphthalene	A	1.8	0.9	10	J	µg, Total	1	01/21/08 22:13	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:13	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 22:13	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 22:13	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 22:13	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 22:13	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 22:13	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 22:13	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 22:13	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 22:13	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 22:13	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 22:13	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 22:13	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
Bis(2-ethylhexyl)phthalate	A	1.9	1.1	10	Jb	µg, Total	1	01/21/08 22:13	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 22:13	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 22:13	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 22:13	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 22:13	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 22:13	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:13	
Hexachlorobutadiene	A	2.1	0.9	10	J	µg, Total	1	01/21/08 22:13	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 22:13	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

TC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-03B
Collection Date: 01/10/08 13:50
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	01/21/08 22:13
Isophorone	A	***ND***	1	10		µg, Total	1	01/21/08 22:13
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	01/21/08 22:13
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	01/21/08 22:13
Nitrobenzene	A	***ND***	1	10		µg, Total	1	01/21/08 22:13
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	01/21/08 22:13
Phenol	A	***ND***	0.4	10		µg, Total	1	01/21/08 22:13
Surr: 2,4,6-Tribromophenol	S	8.17	0	30-130	S	%REC	1	01/21/08 22:13
Surr: 2-Fluorobiphenyl	S	78.7	0	30-130		%REC	1	01/21/08 22:13
Surr: 2-Fluorophenol	S	0.233	0	30-130	S	%REC	1	01/21/08 22:13
Surr: Nitrobenzene-d5	S	63.0	0	30-130		%REC	1	01/21/08 22:13
Surr: Phenol-d5	S	39.6	0	30-130		%REC	1	01/21/08 22:13
Surr: Terphenyl-d14	S	83.6	0	30-130		%REC	1	01/21/08 22:13

R

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	01/22/08 01:28
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	01/22/08 01:28
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 01:28
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	01/22/08 01:28
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	01/22/08 01:28
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 01:28
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	01/22/08 01:28
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	01/22/08 01:28
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	01/22/08 01:28
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	01/22/08 01:28
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	01/22/08 01:28
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	01/22/08 01:28
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	01/22/08 01:28
Naphthalene	A	***3.6***	0.16	1.0		µg, Total	1	01/22/08 01:28
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 01:28
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 01:28
Surr: Nitrobenzene-d5	S	84.2	0	30-130		%REC	1	01/22/08 01:28
Surr: 2-Fluorobiphenyl	S	91.4	0	30-130		%REC	1	01/22/08 01:28
Surr: Terphenyl-d14	S	86.8	0	30-130		%REC	1	01/22/08 01:28

NJ

J
NJ

TK 4/2/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

Revised
04/02/08

ANALYTICAL RESULTS

Date: *Wednesday, April 02, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-04A
Collection Date: 01/10/08 14:20
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***16000***	200	1200		ppbv	3,00	02/01/08 07:11	
1,1,2,2-Tetrachloroethane	A	ND	8.4	30		ppbv	60	02/01/08 08:34	
1,1,2-Trichloroethane	A	***20***	6.6	30	J	ppbv	60	02/01/08 08:34	
1,1-Dichloroethane	A	***1100***	29	150		ppbv	300	02/01/08 07:53	
1,1-Dichloroethene	A	***71***	4.2	30		ppbv	60	02/01/08 08:34	
1,2-Dichloroethane	A	***140***	6	30		ppbv	60	02/01/08 08:34	
1,2-Dichloropropane	A	***120***	5.4	30		ppbv	60	02/01/08 08:34	
2-Butanone	A	***74***	13	120	J	ppbv	60	02/01/08 08:34	120 UB
2-Hexanone	A	ND	6.6	120		ppbv	60	02/01/08 08:34	
4-Methyl-2-Pentanone	A	***660***	9.6	30		ppbv	60	02/01/08 08:34	
Acetone	A	***230***	7.2	120		ppbv	60	02/01/08 08:34	
Benzene	A	***980***	6	30		ppbv	60	02/01/08 08:34	
Bromodichloromethane	A	ND	6	30		ppbv	60	02/01/08 08:34	
Bromoform	A	ND	5.4	30		ppbv	60	02/01/08 08:34	
Bromomethane	A	ND	4.8	30		ppbv	60	02/01/08 08:34	
Carbon disulfide	A	***1500***	97	150		ppbv	300	02/01/08 07:53	J
Carbon tetrachloride	A	ND	6.6	30		ppbv	60	02/01/08 08:34	
Chlorobenzene	A	ND	6.6	30		ppbv	60	02/01/08 08:34	
Chloroethane	A	***87***	6.6	30		ppbv	60	02/01/08 08:34	
Chloroform	A	***1900***	32	150		ppbv	300	02/01/08 07:53	
Chloromethane	A	ND	4.2	120		ppbv	60	02/01/08 08:34	
cis-1,2-Dichloroethene	A	***16000***	220	1200		ppbv	3,00	02/01/08 07:11	J
cis-1,3-Dichloropropene	A	ND	6	30		ppbv	60	02/01/08 08:34	
Dibromochloromethane	A	ND	4.2	30		ppbv	60	02/01/08 08:34	
Ethyl benzene	A	***2900***	32	150		ppbv	300	02/01/08 07:53	
m,p-Xylene	A	***26000***	320	2500		ppbv	3,00	02/01/08 07:11	
Methylene chloride	A	***2200***	130	1200		ppbv	300	02/01/08 07:53	
o-Xylene	A	***14000***	320	1200		ppbv	3,00	02/01/08 07:11	
Styrene	A	***72***	7.8	30		ppbv	60	02/01/08 08:34	
Tetrachloroethene	A	***21000***	270	1200		ppbv	3,00	02/01/08 07:11	
Toluene	A	***21000***	270	1200		ppbv	3,00	02/01/08 07:11	
trans-1,2-Dichloroethene	A	***65***	4.8	30		ppbv	60	02/01/08 08:34	
trans-1,3-Dichloropropene	A	ND	6	30		ppbv	60	02/01/08 08:34	
Trichloroethene	A	***4200***	32	150		ppbv	300	02/01/08 07:53	
Vinyl chloride	A	***870***	4.8	30		ppbv	60	02/01/08 08:34	
Surr: 4-Bromofluorobenzene	S	115	0	77.7-127		%REC	60	02/01/08 08:34	

BC 4/2/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-04B
Collection Date: 01/10/08 14:20
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	01/21/08 22:37	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 22:37	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 22:37	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:37	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 22:37	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 22:37	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 22:37	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 22:37	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:37	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 22:37	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 22:37	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 22:37	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 22:37	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 22:37	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 22:37	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 22:37	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 22:37	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 22:37	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 22:37	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 22:37	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 22:37	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
Bis(2-ethylhexyl)phthalate	A	1.9	1.1	10	Jb	µg, Total	1	01/21/08 22:37	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 22:37	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 22:37	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 22:37	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 22:37	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 22:37	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 22:37	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

JC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-04B
Collection Date: 01/10/08 14:20
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	01/21/08 22:37	
Isophorone	A	ND	1	10		µg, Total	1	01/21/08 22:37	
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	01/21/08 22:37	
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	01/21/08 22:37	
Nitrobenzene	A	ND	1	10		µg, Total	1	01/21/08 22:37	
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	01/21/08 22:37	R
Phenol	A	ND	0.4	10		µg, Total	1	01/21/08 22:37	
Surr: 2,4,6-Tribromophenol	S	0.427	0	30-130	S	%REC	1	01/21/08 22:37	
Surr: 2-Fluorobiphenyl	S	56.2	0	30-130		%REC	1	01/21/08 22:37	
Surr: 2-Fluorophenol	S	0.187	0	30-130	S	%REC	1	01/21/08 22:37	
Surr: Nitrobenzene-d5	S	57.5	0	30-130		%REC	1	01/21/08 22:37	
Surr: Phenol-d5	S	25.9	0	30-130	S	%REC	1	01/21/08 22:37	
Surr: Terphenyl-d14	S	78.0	0	30-130		%REC	1	01/21/08 22:37	

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	01/22/08 01:53	UJ
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	01/22/08 01:53	
Anthracene	A	ND	0.27	1.0		µg, Total	1	01/22/08 01:53	
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	01/22/08 01:53	
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	01/22/08 01:53	
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	01/22/08 01:53	
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	01/22/08 01:53	
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	01/22/08 01:53	
Chrysene	A	ND	0.57	1.0		µg, Total	1	01/22/08 01:53	
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	01/22/08 01:53	
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	01/22/08 01:53	
Fluorene	A	ND	0.25	1.0		µg, Total	1	01/22/08 01:53	
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	01/22/08 01:53	
Naphthalene	A	*0.44*	0.16	1.0	J	µg, Total	1	01/22/08 01:53	J
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	01/22/08 01:53	UJ
Pyrene	A	ND	0.44	1.0		µg, Total	1	01/22/08 01:53	
Surr: Nitrobenzene-d5	S	77.8	0	30-130		%REC	1	01/22/08 01:53	
Surr: 2-Fluorobiphenyl	S	70.7	0	30-130		%REC	1	01/22/08 01:53	
Surr: Terphenyl-d14	S	76.5	0	30-130		%REC	1	01/22/08 01:53	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-05A
Collection Date: 01/10/08 13:30
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***45***	0.39	2.4		ppbv	5	02/09/08 05:19	
1,1,2,2-Tetrachloroethane	A	***ND***	0.14	0.50		ppbv	1	02/08/08 18:42	UJ
1,1,2-Trichloroethane	A	***ND***	0.11	0.50		ppbv	1	02/08/08 18:42	UJ
1,1-Dichloroethane	A	***18***	0.49	4.9		ppbv	5	02/09/08 05:19	
1,1-Dichloroethene	A	***18***	0.07	0.50		ppbv	1	02/08/08 18:42	
1,2-Dichloroethane	A	***1.4***	0.1	0.50		ppbv	1	02/08/08 18:42	
1,2-Dichloropropane	A	***ND***	0.09	0.50		ppbv	1	02/08/08 18:42	
2-Butanone	A	***12***	0.21	2.0		ppbv	1	02/08/08 18:42	
2-Hexanone	A	***4.6***	0.11	2.0		ppbv	1	02/08/08 18:42	J
4-Methyl-2-Pentanone	A	***21***	0.78	2.4		ppbv	5	02/09/08 05:19	J
Acetone	A	***64***	0.59	9.8		ppbv	5	02/09/08 05:19	UB
Benzene	A	***82***	0.49	2.4		ppbv	5	02/09/08 05:19	
Bromodichloromethane	A	***ND***	0.1	0.50		ppbv	1	02/08/08 18:42	
Bromoform	A	***ND***	0.09	0.50		ppbv	1	02/08/08 18:42	UJ
Bromomethane	A	***ND***	0.08	1.0		ppbv	1	02/08/08 18:42	
Carbon disulfide	A	***0.82***	0.33	0.50		ppbv	1	02/08/08 18:42	
Carbon tetrachloride	A	***0.24***	0.11	0.50	J	ppbv	1	02/08/08 18:42	
Chlorobenzene	A	***5.3***	0.11	0.50		ppbv	1	02/08/08 18:42	J
Chloroethane	A	***19***	0.11	0.50		ppbv	1	02/08/08 18:42	
Chloroform	A	***5.1***	0.11	0.50		ppbv	1	02/08/08 18:42	
Chloromethane	A	***2.7***	0.07	2.0		ppbv	1	02/08/08 18:42	
cis-1,2-Dichloroethene	A	***130***	2.1	12		ppbv	25	02/08/08 17:58	
cis-1,3-Dichloropropene	A	***ND***	0.1	0.50		ppbv	1	02/08/08 18:42	
Dibromochloromethane	A	***ND***	0.07	0.50		ppbv	1	02/08/08 18:42	UJ
Ethyl benzene	A	***50***	0.54	2.4		ppbv	5	02/09/08 05:19	J
m,p-Xylene	A	***230***	13	99		ppbv	100	02/09/08 07:24	
Methylene chloride	A	***55***	2.1	20		ppbv	5	02/09/08 05:19	B
o-Xylene	A	***87***	0.64	2.4		ppbv	5	02/09/08 05:19	J
Styrene	A	***14***	0.13	0.50		ppbv	1	02/08/08 18:42	J
Tetrachloroethene	A	***110***	11	50		ppbv	100	02/09/08 07:24	
Toluene	A	***420***	11	50		ppbv	100	02/09/08 07:24	
trans-1,2-Dichloroethene	A	***5.0***	0.08	0.50		ppbv	1	02/08/08 18:42	
trans-1,3-Dichloropropene	A	***ND***	0.1	0.50		ppbv	1	02/08/08 18:42	UJ
Trichloroethene	A	***40***	0.54	2.4		ppbv	5	02/09/08 05:19	
Vinyl chloride	A	***44***	0.39	2.4		ppbv	5	02/09/08 05:19	
Surr: 4-Bromofluorobenzene	S	79.6	0	77.7-127		%REC	5	02/09/08 05:19	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

FC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-05B
Collection Date: 01/10/08 13:30
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	01/21/08 23:01	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 23:01	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 23:01	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:01	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:01	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 23:01	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 23:01	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 23:01	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:01	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:01	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 23:01	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 23:01	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 23:01	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 23:01	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:01	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 23:01	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 23:01	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 23:01	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 23:01	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 23:01	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 23:01	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
Bis(2-ethylhexyl)phthalate	A	2.2	1.1	10	Jb	µg, Total	1	01/21/08 23:01	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 23:01	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 23:01	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:01	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 23:01	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:01	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	01/21/08 23:01	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 23:01	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 6/12/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-05B
Collection Date: 01/10/08 13:30
Date Received: 01/10/08 16:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **01/17/08 15:00**		Analyst: **BEM**
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	01/21/08 23:01
Isophorone	A	***ND***	1	10		µg, Total	1	01/21/08 23:01
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	01/21/08 23:01
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	01/21/08 23:01
Nitrobenzene	A	***ND***	1	10		µg, Total	1	01/21/08 23:01
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	01/21/08 23:01 R
Phenol	A	***ND***	0.4	10		µg, Total	1	01/21/08 23:01 R
Surr: 2,4,6-Tribromophenol	S	4.53	0	30-130	S	%REC	1	01/21/08 23:01
Surr: 2-Fluorobiphenyl	S	74.8	0	30-130		%REC	1	01/21/08 23:01
Surr: 2-Fluorophenol	S	0.160	0	30-130	S	%REC	1	01/21/08 23:01
Surr: Nitrobenzene-d5	S	58.4	0	30-130		%REC	1	01/21/08 23:01
Surr: Phenol-d5	S	39.2	0	30-130		%REC	1	01/21/08 23:01
Surr: Terphenyl-d14	S	79.9	0	30-130		%REC	1	01/21/08 23:01
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **01/17/08 15:00**		Analyst: **BEM**
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	01/22/08 02:18
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	01/22/08 02:18
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 02:18
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	01/22/08 02:18
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	01/22/08 02:18
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 02:18
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	01/22/08 02:18
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	01/22/08 02:18
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	01/22/08 02:18
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	01/22/08 02:18
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	01/22/08 02:18
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	01/22/08 02:18
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	01/22/08 02:18
Naphthalene	A	***0.18***	0.16	1.0	J	µg, Total	1	01/22/08 02:18
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 02:18
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 02:18
Surr: Nitrobenzene-d5	S	79.0	0	30-130		%REC	1	01/22/08 02:18
Surr: 2-Fluorobiphenyl	S	89.2	0	30-130		%REC	1	01/22/08 02:18
Surr: Terphenyl-d14	S	85.1	0	30-130		%REC	1	01/22/08 02:18

BC 4/2/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

Revised 04/02/08

ANALYTICAL RESULTS

Date: *Wednesday, April 02, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-06A
Collection Date: 01/10/08 14:30
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***21000***	200	1200		ppbv	3,00(	02/01/08 00:14	J
1,1,2,2-Tetrachloroethane	A	***ND***	8.4	30		ppbv	60	02/01/08 02:22	
1,1,2-Trichloroethane	A	***67***	6.6	30		ppbv	60	02/01/08 02:22	
1,1-Dichloroethane	A	***2500***	25	120		ppbv	300	02/01/08 00:58	
1,1-Dichloroethene	A	***58***	4.2	30		ppbv	60	02/01/08 02:22	
1,2-Dichloroethane	A	***460***	6	30		ppbv	60	02/01/08 02:22	
1,2-Dichloropropane	A	***100***	5.4	30		ppbv	60	02/01/08 02:22	
2-Butanone	A	***400***	13	120		ppbv	60	02/01/08 02:22	B
2-Hexanone	A	***ND***	6.6	120		ppbv	60	02/01/08 02:22	
4-Methyl-2-Pentanone	A	***230***	9.6	30		ppbv	60	02/01/08 02:22	
Acetone	A	***14000***	300	5000		ppbv	3,00(	02/01/08 00:14	
Benzene	A	***14000***	250	1200		ppbv	3,00(	02/01/08 00:14	J
Bromodichloromethane	A	***ND***	6	30		ppbv	60	02/01/08 02:22	
Bromoform	A	***ND***	5.4	30		ppbv	60	02/01/08 02:22	
Bromomethane	A	***ND***	4.8	30		ppbv	60	02/01/08 02:22	
Carbon disulfide	A	***520***	20	30		ppbv	60	02/01/08 02:22	J
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	02/01/08 02:22	
Chlorobenzene	A	***ND***	6.6	30		ppbv	60	02/01/08 02:22	
Chloroethane	A	***800***	6.6	30		ppbv	60	02/01/08 02:22	
Chloroform	A	***1100***	6.6	30		ppbv	60	02/01/08 02:22	
Chloromethane	A	***ND***	4.2	120		ppbv	60	02/01/08 02:22	
cis-1,2-Dichloroethene	A	***3900***	22	120		ppbv	300	02/01/08 00:58	
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 02:22	
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	02/01/08 02:22	
Ethyl benzene	A	***3300***	27	120		ppbv	300	02/01/08 00:58	
m,p-Xylene	A	***27000***	320	2500		ppbv	3,00(	02/01/08 00:14	J
Methylene chloride	A	***25000***	1100	10000		ppbv	3,00(	02/01/08 00:14	J
o-Xylene	A	***11000***	320	1200		ppbv	3,00(	02/01/08 00:14	J
Styrene	A	***160***	7.8	30		ppbv	60	02/01/08 02:22	
Tetrachloroethene	A	***12000***	270	1200		ppbv	3,00(	02/01/08 00:14	J
Toluene	A	***43000***	270	1200		ppbv	3,00(	02/01/08 00:14	J
trans-1,2-Dichloroethene	A	***52***	4.8	30		ppbv	60	02/01/08 02:22	
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 02:22	
Trichloroethene	A	***13000***	270	1200		ppbv	3,00(	02/01/08 00:14	J
Vinyl chloride	A	***110***	4.8	30		ppbv	60	02/01/08 02:22	
Surr: 4-Bromofluorobenzene	S	120	0	77.7-127		%REC	60	02/01/08 02:22	

JC 4/7/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-06B
Collection Date: 01/10/08 14:30
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	01/21/08 23:26	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 23:26	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 23:26	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:26	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:26	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 23:26	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 23:26	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 23:26	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:26	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:26	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 23:26	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 23:26	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 23:26	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 23:26	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:26	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 23:26	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 23:26	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 23:26	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 23:26	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 23:26	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 23:26	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
Bis(2-ethylhexyl)phthalate	A	4.9	1.1	10	Jb	µg, Total	1	01/21/08 23:26	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 23:26	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 23:26	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:26	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 23:26	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:26	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 23:26	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-06B
Collection Date: 01/10/08 14:30
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	01/21/08 23:26	
Isophorone	A	ND	1	10		µg, Total	1	01/21/08 23:26	
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	01/21/08 23:26	
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	01/21/08 23:26	
Nitrobenzene	A	ND	1	10		µg, Total	1	01/21/08 23:26	
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	01/21/08 23:26	R
Phenol	A	ND	0.4	10		µg, Total	1	01/21/08 23:26	↓
Surr: 2,4,6-Tribromophenol	S	0.800	0	30-130	S	%REC	1	01/21/08 23:26	
Surr: 2-Fluorobiphenyl	S	60.8	0	30-130		%REC	1	01/21/08 23:26	
Surr: 2-Fluorophenol	S	0.0767	0	30-130	S	%REC	1	01/21/08 23:26	
Surr: Nitrobenzene-d5	S	63.2	0	30-130		%REC	1	01/21/08 23:26	
Surr: Phenol-d5	S	33.8	0	30-130		%REC	1	01/21/08 23:26	
Surr: Terphenyl-d14	S	87.6	0	30-130		%REC	1	01/21/08 23:26	

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	01/22/08 02:42	
Acenaphthylene	A	0.4	0.22	1.0	J	µg, Total	1	01/22/08 02:42	1.0 UB
Anthracene	A	ND	0.27	1.0		µg, Total	1	01/22/08 02:42	UJ
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	01/22/08 02:42	
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	01/22/08 02:42	
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	01/22/08 02:42	
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	01/22/08 02:42	
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	01/22/08 02:42	
Chrysene	A	ND	0.57	1.0		µg, Total	1	01/22/08 02:42	
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	01/22/08 02:42	
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	01/22/08 02:42	↓
Fluorene	A	ND	0.25	1.0		µg, Total	1	01/22/08 02:42	
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	01/22/08 02:42	UJ
Naphthalene	A	0.77	0.16	1.0	J	µg, Total	1	01/22/08 02:42	J
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	01/22/08 02:42	UJ
Pyrene	A	ND	0.44	1.0		µg, Total	1	01/22/08 02:42	↓
Surr: Nitrobenzene-d5	S	86.0	0	30-130		%REC	1	01/22/08 02:42	
Surr: 2-Fluorobiphenyl	S	66.5	0	30-130		%REC	1	01/22/08 02:42	
Surr: Terphenyl-d14	S	95.1	0	30-130		%REC	1	01/22/08 02:42	

BC 4/21/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-07A
Collection Date: 01/10/08 14:45
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***19000***	200	1200		ppbv	,00	02/01/08 03:03	
1,1,2,2-Tetrachloroethane	A	***ND***	8.4	30		ppbv	60	02/01/08 04:26	
1,1,2-Trichloroethane	A	***91***	6.6	30		ppbv	60	02/01/08 04:26	
1,1-Dichloroethane	A	***2300***	29	150		ppbv	300	02/01/08 03:44	
1,1-Dichloroethene	A	***56***	4.2	30		ppbv	60	02/01/08 04:26	
1,2-Dichloroethane	A	***420***	6	30		ppbv	60	02/01/08 04:26	
1,2-Dichloropropane	A	***96***	5.4	30		ppbv	60	02/01/08 04:26	
2-Butanone	A	***5800***	62	590		ppbv	300	02/01/08 03:44	B
2-Hexanone	A	***ND***	6.6	120		ppbv	60	02/01/08 04:26	
4-Methyl-2-Pentanone	A	***2700***	47	150		ppbv	300	02/01/08 03:44	
Acetone	A	***14000***	300	5000		ppbv	,00	02/01/08 03:03	
Benzene	A	***12000***	250	1200		ppbv	,00	02/01/08 03:03	
Bromodichloromethane	A	***ND***	6	30		ppbv	60	02/01/08 04:26	
Bromoform	A	***ND***	5.4	30		ppbv	60	02/01/08 04:26	
Bromomethane	A	***ND***	4.8	30		ppbv	60	02/01/08 04:26	
Carbon disulfide	A	***960***	20	30		ppbv	60	02/01/08 04:26	J
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	02/01/08 04:26	
Chlorobenzene	A	***ND***	6.6	30		ppbv	60	02/01/08 04:26	
Chloroethane	A	***430***	6.6	30		ppbv	60	02/01/08 04:26	
Chloroform	A	***1000***	6.6	30		ppbv	60	02/01/08 04:26	
Chloromethane	A	***18***	4.2	120	J	ppbv	60	02/01/08 04:26	
cis-1,2-Dichloroethene	A	***3600***	26	150		ppbv	300	02/01/08 03:44	
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 04:26	
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	02/01/08 04:26	
Ethyl benzene	A	***4100***	32	150		ppbv	300	02/01/08 03:44	
m,p-Xylene	A	***33000***	320	2500		ppbv	,00	02/01/08 03:03	
Methylene chloride	A	***24000***	1100	10000		ppbv	,00	02/01/08 03:03	
o-Xylene	A	***12000***	320	1200		ppbv	,00	02/01/08 03:03	
Styrene	A	***170***	7.8	30		ppbv	60	02/01/08 04:26	
Tetrachloroethene	A	***5700***	32	150		ppbv	300	02/01/08 03:44	
Toluene	A	***240000***	1300	5900		ppbv	2,00	02/08/08 19:24	J
trans-1,2-Dichloroethene	A	***51***	4.8	30		ppbv	60	02/01/08 04:26	
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	02/01/08 04:26	
Trichloroethene	A	***13000***	270	1200		ppbv	,00	02/01/08 03:03	
Vinyl chloride	A	***1200***	4.8	30		ppbv	60	02/01/08 04:26	
Surr: 4-Bromofluorobenzene	S	115	0	77.7-127		%REC	60	02/01/08 04:26	

BC 4/2/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-07B
Collection Date: 01/10/08 14:45
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
1,2-Dichlorobenzene	A	14	0.7	10		µg, Total	1	01/21/08 23:50	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/21/08 23:50	
1,4-Dichlorobenzene	A	3.2	0.9	10	J	µg, Total	1	01/21/08 23:50	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/21/08 23:50	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:50	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:50	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/21/08 23:50	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/21/08 23:50	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/21/08 23:50	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:50	R
2-Methylnaphthalene	A	2.2	0.9	10	J	µg, Total	1	01/21/08 23:50	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/21/08 23:50	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/21/08 23:50	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/21/08 23:50	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/21/08 23:50	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/21/08 23:50	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/21/08 23:50	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/21/08 23:50	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/21/08 23:50	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/21/08 23:50	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/21/08 23:50	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/21/08 23:50	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/21/08 23:50	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
Bis(2-ethylhexyl)phthalate	A	3	1.1	10	Jb	µg, Total	1	01/21/08 23:50	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/21/08 23:50	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/21/08 23:50	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:50	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/21/08 23:50	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/21/08 23:50	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
Hexachlorobutadiene	A	1.8	0.9	10	J	µg, Total	1	01/21/08 23:50	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/21/08 23:50	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-07B
Collection Date: 01/10/08 14:45
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	01/21/08 23:50	
Isophorone	A	12	1	10		µg, Total	1	01/21/08 23:50	
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	01/21/08 23:50	
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	01/21/08 23:50	
Nitrobenzene	A	ND	1	10		µg, Total	1	01/21/08 23:50	
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	01/21/08 23:50	R
Phenol	A	ND	0.4	10		µg, Total	1	01/21/08 23:50	↓
Surr: 2,4,6-Tribromophenol	S	1.26	0	30-130	S	%REC	1	01/21/08 23:50	
Surr: 2-Fluorobiphenyl	S	87.1	0	30-130		%REC	1	01/21/08 23:50	
Surr: 2-Fluorophenol	S	2.20	0	30-130	S	%REC	1	01/21/08 23:50	
Surr: Nitrobenzene-d5	S	67.4	0	30-130		%REC	1	01/21/08 23:50	
Surr: Phenol-d5	S	33.7	0	30-130		%REC	1	01/21/08 23:50	
Surr: Terphenyl-d14	S	79.2	0	30-130		%REC	1	01/21/08 23:50	

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Acenaphthene	A	ND	0.21	1.0		µg, Total	1	01/22/08 03:07	
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	01/22/08 03:07	
Anthracene	A	ND	0.27	1.0		µg, Total	1	01/22/08 03:07	UJ
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	01/22/08 03:07	↓
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	01/22/08 03:07	
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	01/22/08 03:07	
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	01/22/08 03:07	
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	01/22/08 03:07	
Chrysene	A	ND	0.57	1.0		µg, Total	1	01/22/08 03:07	UJ
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	01/22/08 03:07	
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	01/22/08 03:07	UJ
Fluorene	A	ND	0.25	1.0		µg, Total	1	01/22/08 03:07	
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	01/22/08 03:07	
Naphthalene	A	16	0.16	1.0		µg, Total	1	01/22/08 03:07	J
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	01/22/08 03:07	UJ
Pyrene	A	ND	0.44	1.0		µg, Total	1	01/22/08 03:07	↓
Surr: Nitrobenzene-d5	S	95.2	0	30-130		%REC	1	01/22/08 03:07	
Surr: 2-Fluorobiphenyl	S	67.6	0	30-130		%REC	1	01/22/08 03:07	
Surr: Terphenyl-d14	S	80.6	0	30-130		%REC	1	01/22/08 03:07	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 EFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-08A
Collection Date: 01/10/08 14:55
Date Received: 01/10/08 16:15

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***300***	1.5	9.3		ppbv	20	02/08/08 16:33	
1,1,2,2-Tetrachloroethane	A	***1.1***	0.14	0.50		ppbv	1	02/08/08 17:17	
1,1,2-Trichloroethane	A	***ND***	0.11	0.50		ppbv	1	02/08/08 17:17	
1,1-Dichloroethane	A	***130***	1.9	19		ppbv	20	02/08/08 16:33	
1,1-Dichloroethene	A	***100***	1.3	19		ppbv	20	02/08/08 16:33	
1,2-Dichloroethane	A	***13***	0.1	0.50		ppbv	1	02/08/08 17:17	
1,2-Dichloropropane	A	***3.0***	0.09	0.50		ppbv	1	02/08/08 17:17	
2-Butanone	A	***86***	3.9	37		ppbv	20	02/08/08 16:33	
2-Hexanone	A	***15***	0.11	2.0		ppbv	1	02/08/08 17:17	
4-Methyl-2-Pentanone	A	***84***	3	9.3		ppbv	20	02/08/08 16:33	
Acetone	A	***320***	2.2	37		ppbv	20	02/08/08 16:33	UB
Benzene	A	***360***	1.9	9.3		ppbv	20	02/08/08 16:33	
Bromodichloromethane	A	***ND***	0.1	0.50		ppbv	1	02/08/08 17:17	
Bromoform	A	***ND***	0.09	0.50		ppbv	1	02/08/08 17:17	
Bromomethane	A	***ND***	0.08	1.0		ppbv	1	02/08/08 17:17	
Carbon disulfide	A	***ND***	0.33	0.50		ppbv	1	02/08/08 17:17	
Carbon tetrachloride	A	***1.6***	0.11	0.50		ppbv	1	02/08/08 17:17	
Chlorobenzene	A	***14***	0.11	0.50		ppbv	1	02/08/08 17:17	
Chloroethane	A	***30***	2	9.3		ppbv	20	02/08/08 16:33	
Chloroform	A	***33***	2	9.3		ppbv	20	02/08/08 16:33	
Chloromethane	A	***11***	0.07	2.0		ppbv	1	02/08/08 17:17	
cis-1,2-Dichloroethene	A	***130***	1.7	9.3		ppbv	20	02/08/08 16:33	
cis-1,3-Dichloropropene	A	***0.68***	0.1	0.50		ppbv	1	02/08/08 17:17	
Dibromochloromethane	A	***ND***	0.07	0.50		ppbv	1	02/08/08 17:17	
Ethyl benzene	A	***180***	2	9.3		ppbv	20	02/08/08 16:33	
m,p-Xylene	A	***620***	2.4	19		ppbv	20	02/08/08 16:33	
Methylene chloride	A	***520***	52	480		ppbv	120	02/09/08 04:38	UB
o-Xylene	A	***240***	2.4	9.3		ppbv	20	02/08/08 16:33	
Styrene	A	***28***	2.4	9.3		ppbv	20	02/08/08 16:33	
Tetrachloroethene	A	***540***	13	60		ppbv	120	02/09/08 04:38	
Toluene	A	***2200***	13	60		ppbv	120	02/09/08 04:38	
trans-1,2-Dichloroethene	A	***19***	0.08	0.50		ppbv	1	02/08/08 17:17	
trans-1,3-Dichloropropene	A	***1.0***	0.1	0.50		ppbv	1	02/08/08 17:17	
Trichloroethene	A	***220***	2	9.3		ppbv	20	02/08/08 16:33	
Vinyl chloride	A	***81***	1.5	9.3		ppbv	20	02/08/08 16:33	
Surr: 4-Bromofluorobenzene	S	114	0	77.7-127		%REC	1	02/08/08 17:17	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/2/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 EFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-08B
Collection Date: 01/10/08 14:55
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	01/22/08 00:14	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	01/22/08 00:14	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	01/22/08 00:14	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	01/22/08 00:14	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	01/22/08 00:14	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	01/22/08 00:14	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	01/22/08 00:14	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	01/22/08 00:14	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	01/22/08 00:14	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	01/22/08 00:14	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	01/22/08 00:14	
2-Nitrophenol	A	ND	1	10		µg, Total	1	01/22/08 00:14	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	01/22/08 00:14	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	01/22/08 00:14	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	01/22/08 00:14	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	01/22/08 00:14	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	01/22/08 00:14	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	01/22/08 00:14	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	01/22/08 00:14	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	01/22/08 00:14	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	01/22/08 00:14	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
Bis(2-ethylhexyl)phthalate	A	9	1.1	10	Jb	µg, Total	1	01/22/08 00:14	10UB
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	01/22/08 00:14	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	01/22/08 00:14	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	01/22/08 00:14	UJ
Dibenzofuran	A	ND	0.8	10		µg, Total	1	01/22/08 00:14	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	01/22/08 00:14	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	01/22/08 00:14	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	01/22/08 00:14	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

BC 4/7/10

Microbac®

ANALYTICAL RESULTS

Date: *Monday, February 11, 2008*

Client: MWH, Inc.
Client Project: Jan 2008 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 EFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0801445-08B
Collection Date: 01/10/08 14:55
Date Received: 01/10/08 16:15

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	01/22/08 00:14	
Isophorone	A	***ND***	1	10		µg, Total	1	01/22/08 00:14	
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	01/22/08 00:14	
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	01/22/08 00:14	
Nitrobenzene	A	***ND***	1	10		µg, Total	1	01/22/08 00:14	
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	01/22/08 00:14	R
Phenol	A	***ND***	0.4	10		µg, Total	1	01/22/08 00:14	↓
Surr: 2,4,6-Tribromophenol	S	0.353	0	30-130	S	%REC	1	01/22/08 00:14	
Surr: 2-Fluorobiphenyl	S	59.6	0	30-130		%REC	1	01/22/08 00:14	
Surr: 2-Fluorophenol	S	0.180	0	30-130	S	%REC	1	01/22/08 00:14	
Surr: Nitrobenzene-d5	S	63.2	0	30-130		%REC	1	01/22/08 00:14	
Surr: Phenol-d5	S	27.6	0	30-130	S	%REC	1	01/22/08 00:14	
Surr: Terphenyl-d14	S	86.6	0	30-130		%REC	1	01/22/08 00:14	

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **01/17/08 15:00** Analyst: **BEM**

Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	01/22/08 03:32	
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	01/22/08 03:32	
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 03:32	UJ
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	01/22/08 03:32	
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	01/22/08 03:32	
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 03:32	
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	01/22/08 03:32	
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	01/22/08 03:32	
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	01/22/08 03:32	
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	01/22/08 03:32	
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	01/22/08 03:32	UJ
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	01/22/08 03:32	
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	01/22/08 03:32	UJ
Naphthalene	A	***0.46***	0.16	1.0	J	µg, Total	1	01/22/08 03:32	J
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	01/22/08 03:32	UJ
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	01/22/08 03:32	↓
Surr: Nitrobenzene-d5	S	83.5	0	30-130		%REC	1	01/22/08 03:32	
Surr: 2-Fluorobiphenyl	S	69.8	0	30-130		%REC	1	01/22/08 03:32	
Surr: Terphenyl-d14	S	81.5	0	30-130		%REC	1	01/22/08 03:32	

BK 4/2/08

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

February 28, 2008 Off-Gas Sample Laboratory Results

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-01A
Collection Date: 02/28/08 10:40
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*29000*	200	1200		ppbv	,00	03/07/08 22:09
1,1,2,2-Tetrachloroethane	A	*140*	8.4	30		ppbv	60	03/07/08 23:35
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	03/07/08 23:35
1,1-Dichloroethane	A	*5700*	29	150		ppbv	300	03/07/08 22:51
1,1-Dichloroethene	A	*190*	4.2	30		ppbv	60	03/07/08 23:35
1,2-Dichloroethane	A	*910*	6	30		ppbv	60	03/07/08 23:35
1,2-Dichloropropane	A	*210*	5.4	30		ppbv	60	03/07/08 23:35
2-Butanone	A	*9500*	520	5000		ppbv	,00	03/07/08 22:09
2-Hexanone	A	*1100*	J 32	590		ppbv	300	03/07/08 22:51
4-Methyl-2-Pentanone	A	*11000*	400	1200		ppbv	,00	03/07/08 22:09
Acetone	A	*17000*	B 300	5000		ppbv	,00	03/07/08 22:09
Benzene	A	*14000*	250	1200		ppbv	,00	03/07/08 22:09
Bromodichloromethane	A	*ND*	6	30		ppbv	60	03/07/08 23:35
Bromoform	A	*ND*	5.4	30		ppbv	60	03/07/08 23:35
Bromomethane	A	*ND*	4.8	30		ppbv	60	03/07/08 23:35
Carbon disulfide	A	*550*	JB 20	30		ppbv	60	03/07/08 23:35
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	03/07/08 23:35
Chlorobenzene	A	*32*	6.6	30		ppbv	60	03/07/08 23:35
Chloroethane	A	*250*	6.6	30		ppbv	60	03/07/08 23:35
Chloroform	A	*2300*	32	150		ppbv	300	03/07/08 22:51
Chloromethane	A	*65*	4.2	120	J	ppbv	60	03/07/08 23:35
cis-1,2-Dichloroethene	A	*2600*	26	150		ppbv	300	03/07/08 22:51
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/07/08 23:35
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	03/07/08 23:35
Ethyl benzene	A	*11000*	270	1200		ppbv	,00	03/07/08 22:09
m,p-Xylene	A	*43000*	320	2500		ppbv	,00	03/07/08 22:09
Methylene chloride	A	*46000*	UB 1100	10000		ppbv	,00	03/07/08 22:09
o-Xylene	A	*15000*	320	1200		ppbv	,00	03/07/08 22:09
Styrene	A	*770*	7.8	30		ppbv	60	03/07/08 23:35
Tetrachloroethene	A	*19000*	270	1200		ppbv	,00	03/07/08 22:09
Toluene	A	*15000*	940	4300		ppbv	,00	03/08/08 11:20
trans-1,2-Dichloroethene	A	*64*	4.8	30		ppbv	60	03/07/08 23:35
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/07/08 23:35
Trichloroethene	A	*17000*	270	1200		ppbv	,00	03/07/08 22:09
Vinyl chloride	A	*720*	4.8	30		ppbv	60	03/07/08 23:35
Surr: 4-Bromofluorobenzene	S	101	0	77.7-127		%REC	60	03/07/08 23:35

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

8/4/2008

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-02A
Collection Date: 02/28/08 10:43
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	***11000***	240	1500		ppbv	,00(	03/08/08 00:17
1,1,2,2-Tetrachloroethane	A	***ND***	8.4	30		ppbv	60	03/08/08 01:43
1,1,2-Trichloroethane	A	***ND***	6.6	30		ppbv	60	03/08/08 01:43
1,1-Dichloroethane	A	***1400***	30	150		ppbv	300	03/08/08 00:58
1,1-Dichloroethene	A	***61***	4.2	30		ppbv	60	03/08/08 01:43
1,2-Dichloroethane	A	***160***	6	30		ppbv	60	03/08/08 01:43
1,2-Dichloropropane	A	***130***	5.4	30		ppbv	60	03/08/08 01:43
2-Butanone	A	***61***	13	120	J	ppbv	60	03/08/08 01:43
2-Hexanone	A	***ND***	6.6	120		ppbv	60	03/08/08 01:43
4-Methyl-2-Pentanone	A	***490***	9.6	30		ppbv	60	03/08/08 01:43
Acetone	A	***290***	UB 7.2	120		ppbv	60	03/08/08 01:43
Benzene	A	***1200***	6	30		ppbv	60	03/08/08 01:43
Bromodichloromethane	A	***ND***	6	30		ppbv	60	03/08/08 01:43
Bromoform	A	***ND***	5.4	30		ppbv	60	03/08/08 01:43
Bromomethane	A	***ND***	4.8	30		ppbv	60	03/08/08 01:43
Carbon disulfide	A	***480***	UB J 20	30		ppbv	60	03/08/08 01:43
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	03/08/08 01:43
Chlorobenzene	A	***13***	6.6	30	J	ppbv	60	03/08/08 01:43
Chloroethane	A	***130***	6.6	30		ppbv	60	03/08/08 01:43
Chloroform	A	***2900***	33	150		ppbv	300	03/08/08 00:58
Chloromethane	A	***ND***	4.2	120		ppbv	60	03/08/08 01:43
cis-1,2-Dichloroethene	A	***5400***	27	150		ppbv	300	03/08/08 00:58
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	03/08/08 01:43
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	03/08/08 01:43
Ethyl benzene	A	***2400***	33	150		ppbv	300	03/08/08 00:58
m,p-Xylene	A	***9900***	39	300		ppbv	300	03/08/08 00:58
Methylene chloride	A	***4300***	UB 130	1200		ppbv	300	03/08/08 00:58
o-Xylene	A	***4900***	39	150		ppbv	300	03/08/08 00:58
Styrene	A	***210***	7.8	30		ppbv	60	03/08/08 01:43
Tetrachloroethene	A	***17000***	330	1500		ppbv	,00(	03/08/08 00:17
Toluene	A	***16000***	330	1500		ppbv	,00(	03/08/08 00:17
trans-1,2-Dichloroethene	A	***38***	4.8	30		ppbv	60	03/08/08 01:43
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	03/08/08 01:43
Trichloroethene	A	***8100***	330	1500		ppbv	,00(	03/08/08 00:17
Vinyl chloride	A	***670***	4.8	30		ppbv	60	03/08/08 01:43
Surr: 4-Bromofluorobenzene	S	97.1	0	77.7-127		%REC	60	03/08/08 01:43

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #3 TOX 1 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-03A
Collection Date: 02/28/08 11:00
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	***8800***	220	1400		ppbv	,00(	03/08/08 02:24
1,1,2,2-Tetrachloroethane	A	***ND***	8.4	30		ppbv	60	03/08/08 03:50
1,1,2-Trichloroethane	A	***ND***	6.6	30		ppbv	60	03/08/08 03:50
1,1-Dichloroethane	A	***1500***	30	150		ppbv	300	03/08/08 03:06
1,1-Dichloroethene	A	***66***	4.2	30		ppbv	60	03/08/08 03:50
1,2-Dichloroethane	A	***150***	6	30		ppbv	60	03/08/08 03:50
1,2-Dichloropropane	A	***120***	5.4	30		ppbv	60	03/08/08 03:50
2-Butanone	A	***66***	13	120	J	ppbv	60	03/08/08 03:50
2-Hexanone	A	***ND***	6.6	120		ppbv	60	03/08/08 03:50
4-Methyl-2-Pentanone	A	***490***	9.6	30		ppbv	60	03/08/08 03:50
Acetone	A	***320*** B	7.2	120		ppbv	60	03/08/08 03:50
Benzene	A	***1100***	6	30		ppbv	60	03/08/08 03:50
Bromodichloromethane	A	***ND***	6	30		ppbv	60	03/08/08 03:50
Bromoform	A	***ND***	5.4	30		ppbv	60	03/08/08 03:50
Bromomethane	A	***ND***	4.8	30		ppbv	60	03/08/08 03:50
Carbon disulfide	A	***490*** WB J	20	30		ppbv	60	03/08/08 03:50
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	03/08/08 03:50
Chlorobenzene	A	***ND***	6.6	30		ppbv	60	03/08/08 03:50
Chloroethane	A	***140***	6.6	30		ppbv	60	03/08/08 03:50
Chloroform	A	***2900***	33	150		ppbv	300	03/08/08 03:06
Chloromethane	A	***ND***	4.2	120		ppbv	60	03/08/08 03:50
cis-1,2-Dichloroethene	A	***5300***	27	150		ppbv	300	03/08/08 03:06
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	03/08/08 03:50
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	03/08/08 03:50
Ethyl benzene	A	***2300***	33	150		ppbv	300	03/08/08 03:06
m,p-Xylene	A	***9600***	39	300		ppbv	300	03/08/08 03:06
Methylene chloride	A	***4300*** WB	130	1200		ppbv	300	03/08/08 03:06
o-Xylene	A	***4800***	39	150		ppbv	300	03/08/08 03:06
Styrene	A	***ND***	7.8	30		ppbv	60	03/08/08 03:50
Tetrachloroethene	A	***12000***	300	1400		ppbv	,00(	03/08/08 02:24
Toluene	A	***11000***	300	1400		ppbv	,00(	03/08/08 02:24
trans-1,2-Dichloroethene	A	***46***	4.8	30		ppbv	60	03/08/08 03:50
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	03/08/08 03:50
Trichloroethene	A	***5600***	33	150		ppbv	300	03/08/08 03:06
Vinyl chloride	A	***640***	4.8	30		ppbv	60	03/08/08 03:50
Surr: 4-Bromofluorobenzene	S	97.8	0	77.7-127		%REC	60	03/08/08 03:50

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/2/08

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #4 TOX 1 Influent (Dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-04A
Collection Date: 02/28/08 11:05
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*13000*	220	1400		ppbv	,00(	03/06/08 03:05
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	03/06/08 04:29
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	03/06/08 04:29
1,1-Dichloroethane	A	*2700*	30	150		ppbv	300	03/06/08 03:46
1,1-Dichloroethene	A	*55*	4.2	30		ppbv	60	03/06/08 04:29
1,2-Dichloroethane	A	*130*	6	30		ppbv	60	03/06/08 04:29
1,2-Dichloropropane	A	*130*	5.4	30		ppbv	60	03/06/08 04:29
2-Butanone	A	*53*	13	120	J	ppbv	60	03/06/08 04:29
2-Hexanone	A	*ND*	6.6	120		ppbv	60	03/06/08 04:29
4-Methyl-2-Pentanone	A	*420*	J 9.6	30		ppbv	60	03/06/08 04:29
Acetone	A	*200*	B 7.2	120		ppbv	60	03/06/08 04:29
Benzene	A	*1200*	6	30		ppbv	60	03/06/08 04:29
Bromodichloromethane	A	*ND*	6	30		ppbv	60	03/06/08 04:29
Bromoform	A	*ND*	5.4	30		ppbv	60	03/06/08 04:29
Bromomethane	A	*ND*	4.8	30		ppbv	60	03/06/08 04:29
Carbon disulfide	A	*270*	J 20	30		ppbv	60	03/06/08 04:29
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	03/06/08 04:29
Chlorobenzene	A	*ND*	6.6	30		ppbv	60	03/06/08 04:29
Chloroethane	A	*110*	6.6	30		ppbv	60	03/06/08 04:29
Chloroform	A	*3300*	33	150		ppbv	300	03/06/08 03:46
Chloromethane	A	*ND*	4.2	120		ppbv	60	03/06/08 04:29
cis-1,2-Dichloroethene	A	*5000*	27	150		ppbv	300	03/06/08 03:46
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/06/08 04:29
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	03/06/08 04:29
Ethyl benzene	A	*3200*	33	150		ppbv	300	03/06/08 03:46
m,p-Xylene	A	*12000*	350	2700		ppbv	,00(	03/06/08 03:05
Methylene chloride	A	*3400*	B 130	1200		ppbv	300	03/06/08 03:46
o-Xylene	A	*5900*	350	1400		ppbv	,00(	03/06/08 03:05
Styrene	A	*ND*	7.8	30		ppbv	60	03/06/08 04:29
Tetrachloroethene	A	*17000*	300	1400		ppbv	,00(	03/06/08 03:05
Toluene	A	*11000*	300	1400		ppbv	,00(	03/06/08 03:05
trans-1,2-Dichloroethene	A	*33*	4.8	30		ppbv	60	03/06/08 04:29
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/06/08 04:29
Trichloroethene	A	*8100*	300	1400		ppbv	,00(	03/06/08 03:05
Vinyl chloride	A	*680*	4.8	30		ppbv	60	03/06/08 04:29
Surr: 4-Bromofluorobenzene	S	96.0	0	77.7-127		%REC	60	03/06/08 04:29

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/21/08

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #5 TOX 1 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-05A
Collection Date: 02/28/08 11:30
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*56*	0.4	2.5		ppbv	5	03/05/08 19:36
1,1,2,2-Tetrachloroethane	A	*0.41*	0.14	0.50	J	ppbv	1	03/05/08 20:19
1,1,2-Trichloroethane	A	*ND*	0.11	0.50		ppbv	1	03/05/08 20:19
1,1-Dichloroethane	A	*11*	0.1	0.50		ppbv	1	03/05/08 20:19
1,1-Dichloroethene	A	*6.9*	0.07	0.50		ppbv	1	03/05/08 20:19
1,2-Dichloroethane	A	*1.7*	0.1	0.50		ppbv	1	03/05/08 20:19
1,2-Dichloropropane	A	*ND*	0.09	0.50		ppbv	1	03/05/08 20:19
2-Butanone	A	*18*	0.21	2.0		ppbv	1	03/05/08 20:19
2-Hexanone	A	*ND*	0.11	2.0		ppbv	1	03/05/08 20:19
4-Methyl-2-Pentanone	A	*14* J	0.16	0.50		ppbv	1	03/05/08 20:19
Acetone	A	*30* B	0.6	10		ppbv	5	03/05/08 19:36
Benzene	A	*34*	0.5	2.5		ppbv	5	03/05/08 19:36
Bromodichloromethane	A	*ND*	0.1	0.50		ppbv	1	03/05/08 20:19
Bromoform	A	*ND*	0.09	0.50		ppbv	1	03/05/08 20:19
Bromomethane	A	*ND*	0.08	0.50		ppbv	1	03/05/08 20:19
Carbon disulfide	A	*ND* WJ	0.33	0.50		ppbv	1	03/05/08 20:19
Carbon tetrachloride	A	*ND*	0.11	0.50		ppbv	1	03/05/08 20:19
Chlorobenzene	A	*0.45*	0.11	0.50	J	ppbv	1	03/05/08 20:19
Chloroethane	A	*1.4*	0.11	0.50		ppbv	1	03/05/08 20:19
Chloroform	A	*5.6*	0.11	0.50		ppbv	1	03/05/08 20:19
Chloromethane	A	*1*	0.07	2.0	J	ppbv	1	03/05/08 20:19
cis-1,2-Dichloroethene	A	*8.8*	0.09	0.50		ppbv	1	03/05/08 20:19
cis-1,3-Dichloropropene	A	*ND*	0.1	0.50		ppbv	1	03/05/08 20:19
Dibromochloromethane	A	*ND*	0.07	0.50		ppbv	1	03/05/08 20:19
Ethyl benzene	A	*22*	0.55	2.5		ppbv	5	03/05/08 19:36
m,p-Xylene	A	*82*	0.65	5.0		ppbv	5	03/05/08 19:36
Methylene chloride	A	*80* B	2.2	20		ppbv	5	03/05/08 19:36
o-Xylene	A	*30*	0.65	2.5		ppbv	5	03/05/08 19:36
Styrene	A	*2.2*	0.13	0.50		ppbv	1	03/05/08 20:19
Tetrachloroethene	A	*47*	0.55	2.5		ppbv	5	03/05/08 19:36
Toluene	A	*290*	5.5	25		ppbv	50	03/05/08 18:55
trans-1,2-Dichloroethene	A	*0.98*	0.08	0.50		ppbv	1	03/05/08 20:19
trans-1,3-Dichloropropene	A	*ND*	0.1	0.50		ppbv	1	03/05/08 20:19
Trichloroethene	A	*33*	0.55	2.5		ppbv	5	03/05/08 19:36
Vinyl chloride	A	*4.7*	0.08	0.50		ppbv	1	03/05/08 20:19
Surr: 4-Bromofluorobenzene	S	103	0	77.7-127		%REC	1	03/05/08 20:19

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #6 TOX 2 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-06A
Collection Date: 02/28/08 11:28
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*21000*	220	1400		ppbv	,00	03/05/08 16:09
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	03/05/08 17:32
1,1,2-Trichloroethane	A	*89*	6.6	30		ppbv	60	03/05/08 17:32
1,1-Dichloroethane	A	*3300*	30	150		ppbv	300	03/05/08 16:49
1,1-Dichloroethene	A	*100*	4.2	30		ppbv	60	03/05/08 17:32
1,2-Dichloroethane	A	*510*	6	30		ppbv	60	03/05/08 17:32
1,2-Dichloropropane	A	*120*	5.4	30		ppbv	60	03/05/08 17:32
2-Butanone	A	*4000*	62	590		ppbv	300	03/05/08 16:49
2-Hexanone	A	*550*	J 6.6	120		ppbv	60	03/05/08 17:32
4-Methyl-2-Pentanone	A	*4500*	J 48	150		ppbv	300	03/05/08 16:49
Acetone	A	*14000*	B 330	5500		ppbv	,00	03/05/08 16:09
Benzene	A	*11000*	270	1400		ppbv	,00	03/05/08 16:09
Bromodichloromethane	A	*17*	6	30	J	ppbv	60	03/05/08 17:32
Bromoform	A	*ND*	5.4	30		ppbv	60	03/05/08 17:32
Bromomethane	A	*ND*	4.8	30		ppbv	60	03/05/08 17:32
Carbon disulfide	A	*760*	20	30		ppbv	60	03/05/08 17:32
Carbon tetrachloride	A	*ND*	UJ 6.6	30		ppbv	60	03/05/08 17:32
Chlorobenzene	A	*160*	6.6	30		ppbv	60	03/05/08 17:32
Chloroethane	A	*480*	6.6	30		ppbv	60	03/05/08 17:32
Chloroform	A	*1400*	33	150		ppbv	300	03/05/08 16:49
Chloromethane	A	*41*	4.2	120	J	ppbv	60	03/05/08 17:32
cis-1,2-Dichloroethene	A	*2200*	27	150		ppbv	300	03/05/08 16:49
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/05/08 17:32
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	03/05/08 17:32
Ethyl benzene	A	*7000*	300	1400		ppbv	,00	03/05/08 16:09
m,p-Xylene	A	*27000*	350	2700		ppbv	,00	03/05/08 16:09
Methylene chloride	A	*5200*	UB 380	3600		ppbv	900	03/08/08 10:38
o-Xylene	A	*9400*	350	1400		ppbv	,00	03/05/08 16:09
Styrene	A	*450*	7.8	30		ppbv	60	03/05/08 17:32
Tetrachloroethene	A	*13000*	300	1400		ppbv	,00	03/05/08 16:09
Toluene	A	*14000*	98	450		ppbv	900	03/08/08 10:38
trans-1,2-Dichloroethene	A	*48*	4.8	30		ppbv	60	03/05/08 17:32
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/05/08 17:32
Trichloroethene	A	*12000*	300	1400		ppbv	,00	03/05/08 16:09
Vinyl chloride	A	*770*	4.8	30		ppbv	60	03/05/08 17:32
Surr: 4-Bromofluorobenzene	S	106	0	77.7-127		%REC	60	03/05/08 17:32

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/21/08

Microbac

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #7 TOX 2 Influent (Dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-07A
Collection Date: 02/28/08 11:40
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*11000*	220	1400		ppbv	,00(	03/06/08 00:52
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	03/06/08 02:25
1,1,2-Trichloroethane	A	*88*	6.6	30		ppbv	60	03/06/08 02:25
1,1-Dichloroethane	A	*3400*	30	150		ppbv	300	03/06/08 01:33
1,1-Dichloroethene	A	*60*	4.2	30		ppbv	60	03/06/08 02:25
1,2-Dichloroethane	A	*390*	6	30		ppbv	60	03/06/08 02:25
1,2-Dichloropropane	A	*91*	5.4	30		ppbv	60	03/06/08 02:25
2-Butanone	A	*2400*	62	590		ppbv	300	03/06/08 01:33
2-Hexanone	A	*520* J	6.6	120		ppbv	60	03/06/08 02:25
4-Methyl-2-Pentanone	A	*2400* J	48	150		ppbv	300	03/06/08 01:33
Acetone	A	*4700* B	36	590		ppbv	300	03/06/08 01:33
Benzene	A	*5600*	30	150		ppbv	300	03/06/08 01:33
Bromodichloromethane	A	*ND*	6	30		ppbv	60	03/06/08 02:25
Bromoform	A	*ND*	5.4	30		ppbv	60	03/06/08 02:25
Bromomethane	A	*22*	4.8	30	J	ppbv	60	03/06/08 02:25
Carbon disulfide	A	*110* J	20	30		ppbv	60	03/06/08 02:25
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	03/06/08 02:25
Chlorobenzene	A	*160*	6.6	30		ppbv	60	03/06/08 02:25
Chloroethane	A	*240*	6.6	30		ppbv	60	03/06/08 02:25
Chloroform	A	*1200*	6.6	30		ppbv	60	03/06/08 02:25
Chloromethane	A	*28*	4.2	120	J	ppbv	60	03/06/08 02:25
cis-1,2-Dichloroethene	A	*1200*	27	150		ppbv	300	03/06/08 01:33
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/06/08 02:25
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	03/06/08 02:25
Ethyl benzene	A	*3500*	33	150		ppbv	300	03/06/08 01:33
m,p-Xylene	A	*12000*	350	2700		ppbv	,00(	03/06/08 00:52
Methylene chloride	A	*39000* B	1200	11000		ppbv	,00(	03/06/08 00:52
o-Xylene	A	*3900*	350	1400		ppbv	,00(	03/06/08 00:52
Styrene	A	*470*	7.8	30		ppbv	60	03/06/08 02:25
Tetrachloroethene	A	*6200*	300	1400		ppbv	,00(	03/06/08 00:52
Toluene	A	*26000*	300	1400		ppbv	,00(	03/06/08 00:52
trans-1,2-Dichloroethene	A	*22*	4.8	30	J	ppbv	60	03/06/08 02:25
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	03/06/08 02:25
Trichloroethene	A	*5100*	33	150		ppbv	300	03/06/08 01:33
Vinyl chloride	A	*430*	4.8	30		ppbv	60	03/06/08 02:25
Surr: 4-Bromofluorobenzene	S	98.0	0	77.7-127		%REC	60	03/06/08 02:25

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

MAr 1 08

ANALYTICAL RESULTS

Date: *Saturday, March 15, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - Feb 2008
Client Sample ID: #8 TOX 2 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0802A19-08A
Collection Date: 02/28/08 11:50
Date Received: 02/28/08 14:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**
1,1,1-Trichloroethane	A	*610*	4	25		ppbv	50	03/05/08 20:59
1,1,2,2-Tetrachloroethane	A	*ND*	0.14	0.50		ppbv	1	03/05/08 22:23
1,1,2-Trichloroethane	A	*2.6*	0.11	0.50		ppbv	1	03/05/08 22:23
1,1-Dichloroethane	A	*200*	5	25		ppbv	50	03/05/08 20:59
1,1-Dichloroethene	A	*99*	0.35	2.5		ppbv	5	03/05/08 21:39
1,2-Dichloroethane	A	*12*	0.1	0.50		ppbv	1	03/05/08 22:23
1,2-Dichloropropane	A	*2.4*	0.09	0.50		ppbv	1	03/05/08 22:23
2-Butanone	A	*140*	10	100		ppbv	50	03/05/08 20:59
2-Hexanone	A	*7.6*	J 0.11	2.0		ppbv	1	03/05/08 22:23
4-Methyl-2-Pentanone	A	*110*	J 8	25		ppbv	50	03/05/08 20:59
Acetone	A	*390*	B 6	100		ppbv	50	03/05/08 20:59
Benzene	A	*620*	5	25		ppbv	50	03/05/08 20:59
Bromodichloromethane	A	*ND*	0.1	0.50		ppbv	1	03/05/08 22:23
Bromoform	A	*ND*	0.09	0.50		ppbv	1	03/05/08 22:23
Bromomethane	A	*ND*	0.08	0.50		ppbv	1	03/05/08 22:23
Carbon disulfide	A	*ND*	U 0.33	0.50		ppbv	1	03/05/08 22:23
Carbon tetrachloride	A	*2.2*	0.11	0.50		ppbv	1	03/05/08 22:23
Chlorobenzene	A	*6.3*	0.11	0.50		ppbv	1	03/05/08 22:23
Chloroethane	A	*6.1*	0.11	0.50		ppbv	1	03/05/08 22:23
Chloroform	A	*41*	0.55	2.5		ppbv	5	03/05/08 21:39
Chloromethane	A	*9.7*	0.07	2.0		ppbv	1	03/05/08 22:23
cis-1,2-Dichloroethene	A	*46*	0.45	2.5		ppbv	5	03/05/08 21:39
cis-1,3-Dichloropropene	A	*ND*	0.1	0.50		ppbv	1	03/05/08 22:23
Dibromochloromethane	A	*ND*	0.07	0.50		ppbv	1	03/05/08 22:23
Ethyl benzene	A	*200*	5.5	25		ppbv	50	03/05/08 20:59
m,p-Xylene	A	*680*	6.5	50		ppbv	50	03/05/08 20:59
Methylene chloride	A	*910*	B 22	200		ppbv	50	03/05/08 20:59
o-Xylene	A	*240*	6.5	25		ppbv	50	03/05/08 20:59
Styrene	A	*37*	0.65	2.5		ppbv	5	03/05/08 21:39
Tetrachloroethene	A	*570*	5.5	25		ppbv	50	03/05/08 20:59
Toluene	A	*1600*	16	74		ppbv	150	03/08/08 05:14
trans-1,2-Dichloroethene	A	*6.8*	0.08	0.50		ppbv	1	03/05/08 22:23
trans-1,3-Dichloropropene	A	*0.67*	J 0.1	0.50		ppbv	1	03/05/08 22:23
Trichloroethene	A	*420*	5.5	25		ppbv	50	03/05/08 20:59
Vinyl chloride	A	*43*	0.4	2.5		ppbv	5	03/05/08 21:39
Surr: 4-Bromofluorobenzene	S	97.1	0	77.7-127		%REC	1	03/05/08 22:23

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

4/21/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #1 OFFSITE ISVE

Lab ID#: 0802623R1-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030508R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 11:17 AM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	3.9
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	0.66 J
1,4-Dichlorobenzene	1.0	2.5
1,2-Dichlorobenzene	1.0	20
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	2.1 J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	19
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.2
Naphthalene	1.0	31 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.8
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	4.5
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #1 OFFSITE ISVE

Lab ID#: 0802623R1-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030508R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 11:17 AM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	0.14 J
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	1.4 J
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	50-150
Phenol-d5	94	50-150
Nitrobenzene-d5	85	50-150
2,4,6-Tribromophenol	69	50-150

KS/1/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #1 OFFSITE ISVE

Lab ID#: 0802623R1-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p030508R1**	**Date of Collection:**	**2/28/08**
Dil. Factor:	**1.00**	**Date of Analysis:**	**3/5/08 11:17 AM**
		Date of Extraction:	**2/29/08**

Surrogates	**%Recovery**	**Method Limits**
Fluorene-d10	76	60-120
Pyrene-d10	81	60-120

3/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #2 SBPA ISVE

Lab ID#: 0802623R1-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030514R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:14 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	1.4
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	1.4
1,4-Dichlorobenzene	1.0	2.4
1,2-Dichlorobenzene	1.0	11
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	1.2
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.0
Naphthalene	1.0	3.8 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.2
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.1
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #2 SBPA ISVE

Lab ID#: 0802623R1-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030514R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:14 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	50-150
Phenol-d5	86	50-150
Nitrobenzene-d5	81	50-150
2,4,6-Tribromophenol	69	50-150
Fluorene-d10	78	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #2 SBPA ISVE

Lab ID#: 0802623R1-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030514R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:14 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Pyrene-d10	82	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #3 TOX 1 Influent

Lab ID#: 0802623R1-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030515R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:44 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	1.2
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	1.4
1,4-Dichlorobenzene	1.0	2.6
1,2-Dichlorobenzene	1.0	11
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	1.0
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.3
Naphthalene	1.0	4.5 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.8
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.8
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #3 TOX 1 Influent

Lab ID#: 0802623R1-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030515R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:44 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	77	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	83	50-150
2,4,6-Tribromophenol	74	50-150
Fluorene-d10	80	60-120

3/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #3 TOX 1 Influent

Lab ID#: 0802623R1-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030515R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 02:44 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Pyrene-d10	83	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #4 TOX 1 Influent (DUP)

Lab ID#: 0802623R1-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030516R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:13 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	2.1
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	2.2
1,4-Dichlorobenzene	1.0	4.0
1,2-Dichlorobenzene	1.0	18
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	1.8
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.5
Naphthalene	1.0	10 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	5.7
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	5.6
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	0.25 J
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #4 TOX 1 Influent (DUP)

Lab ID#: 0802623R1-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030516R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:13 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	1.9 J
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	82	50-150
2,4,6-Tribromophenol	72	50-150

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #4 TOX 1 Influent (DUP)

Lab ID#: 0802623R1-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030516R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:13 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Fluorene-d10	81	60-120
Pyrene-d10	80	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #5 TOX 1 Effluent

Lab ID#: 0802623R1-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030517R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:42 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	0.15 J 1.0UB
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #5 TOX 1 Effluent

Lab ID#: 0802623R1-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030517R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:42 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	2.4 J
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	70	50-150
Phenol-d5	77	50-150
Nitrobenzene-d5	72	50-150
2,4,6-Tribromophenol	66	50-150

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #5 TOX 1 Effluent

Lab ID#: 0802623R1-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030517R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 03:42 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Fluorene-d10	68	60-120
Pyrene-d10	76	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #6 TOX 2 Influent

Lab ID#: 0802623R1-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030518R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:12 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	2.0
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	0.59 J
1,4-Dichlorobenzene	1.0	3.4
1,2-Dichlorobenzene	1.0	14
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	11
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	11 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	0.92 J
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.5
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

3/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #6 TOX 2 Influent

Lab ID#: 0802623R1-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030518R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:12 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	1.6 J
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	50-150
Phenol-d5	88	50-150
Nitrobenzene-d5	82	50-150
2,4,6-Tribromophenol	69	50-150

8/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #6 TOX 2 Influent

Lab ID#: 0802623R1-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030518R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:12 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Fluorene-d10	75	60-120
Pyrene-d10	76	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #7 TOX 2 Influent DUP

Lab ID#: 0802623R1-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030519R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:41 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	4.3
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	1.0
1,4-Dichlorobenzene	1.0	5.4
1,2-Dichlorobenzene	1.0	27
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	20
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.4
Naphthalene	1.0	36 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	2.0
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	4.5
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

8/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #7 TOX 2 Influent DUP

Lab ID#: 0802623R1-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030519R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:41 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	50-150
Phenol-d5	99	50-150
Nitrobenzene-d5	87	50-150
2,4,6-Tribromophenol	70	50-150
Fluorene-d10	80	60-120

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #7 TOX 2 Influent DUP

Lab ID#: 0802623R1-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030519R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 04:41 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Pyrene-d10	82	60-120

3/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #8 TOX 2 Effluent

Lab ID#: 0802623R1-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030520R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 05:12 PM
		Date of Extraction:	2/29/08

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	0.42 J
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	0.98 J ~~B~~ 1.0 UB
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	0.18 J
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #8 TOX 2 Effluent

Lab ID#: 0802623R1-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**p030520R1**	**Date of Collection:**	**2/28/08**
Dil. Factor:	**1.00**	**Date of Analysis:**	**3/5/08 05:12 PM**
		Date of Extraction:	**2/29/08**

Compound	Rpt. Limit (ug)	Amount (ug)
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	5.9
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected
Carbazole	20	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	50-150
Phenol-d5	84	50-150
Nitrobenzene-d5	80	50-150
2,4,6-Tribromophenol	72	50-150

5/7/08

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #8 TOX 2 Effluent

Lab ID#: 0802623R1-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p030520R1	Date of Collection:	2/28/08
Dil. Factor:	1.00	Date of Analysis:	3/5/08 05:12 PM
		Date of Extraction:	2/29/08

Surrogates	%Recovery	Method Limits
Fluorene-d10	76	60-120
Pyrene-d10	79	60-120

5/7/08

March 27, 2008 Off-Gas Sample Laboratory Results

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #1 OFFSITE ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-01B
Collection Date: 03/27/08 09:10
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	*7000*	220	1400		ppbv	1,00	04/04/08 07:20	
1,1,2,2-Tetrachloroethane	A	*ND*	8.3	30		ppbv	60	04/03/08 18:06	
1,1,2-Trichloroethane	A	*120*	6.5	30		ppbv	60	04/03/08 18:06	
1,1-Dichloroethane	A	*2300*	27	140		ppbv	300	04/03/08 17:27	
1,1-Dichloroethene	A	*69*	4.2	30		ppbv	60	04/03/08 18:06	
1,2-Dichloroethane	A	*390*	5.9	30		ppbv	60	04/03/08 18:06	
1,2-Dichloropropane	A	*110*	5.3	30		ppbv	60	04/03/08 18:06	
2-Butanone	A	*5700*	570	5500		ppbv	1,00	04/04/08 07:20	
2-Hexanone	A	*ND*	6.5	120		ppbv	60	04/03/08 18:06	
4-Methyl-2-Pentanone	A	*4000*	44	140		ppbv	300	04/03/08 17:27	
Acetone	A	*6500*	330	5500		ppbv	1,00	04/04/08 07:20	uB
Benzene	A	*5400*	27	140		ppbv	300	04/03/08 17:27	
Bromodichloromethane	A	*ND*	5.9	30		ppbv	60	04/03/08 18:06	
Bromoform	A	*ND*	5.3	30		ppbv	60	04/03/08 18:06	
Bromomethane	A	*ND*	4.8	30		ppbv	60	04/03/08 18:06	
Carbon disulfide	A	*220*	20	59		ppbv	60	04/03/08 18:06	JB
Carbon tetrachloride	A	*ND*	6.5	30		ppbv	60	04/03/08 18:06	
Chlorobenzene	A	*ND*	6.5	30		ppbv	60	04/03/08 18:06	
Chloroethane	A	*100*	6.5	30		ppbv	60	04/03/08 18:06	
Chloroform	A	*1000*	30	140		ppbv	300	04/03/08 17:27	
Chloromethane	A	*26*	4.2	120	J	ppbv	60	04/03/08 18:06	
cis-1,2-Dichloroethene	A	*1300*	25	140		ppbv	300	04/03/08 17:27	
cis-1,3-Dichloropropene	A	*ND*	5.9	30		ppbv	60	04/03/08 18:06	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	04/03/08 18:06	
Ethyl benzene	A	*5200*	30	140		ppbv	300	04/03/08 17:27	
m,p-Xylene	A	*18000*	350	2700		ppbv	1,00	04/04/08 07:20	
Methylene chloride	A	*11000*	1200	11000		ppbv	1,00	04/04/08 07:20	uB
o-Xylene	A	*6600*	350	1400		ppbv	1,00	04/04/08 07:20	
Styrene	A	*250*	7.7	30		ppbv	60	04/03/08 18:06	
Tetrachloroethene	A	*5100*	300	1400		ppbv	1,00	04/04/08 07:20	
Toluene	A	*35000*	300	1400		ppbv	1,00	04/04/08 07:20	
trans-1,2-Dichloroethene	A	*28*	4.8	30	J	ppbv	60	04/03/08 18:06	
trans-1,3-Dichloropropene	A	*ND*	5.9	30		ppbv	60	04/03/08 18:06	
Trichloroethene	A	*5000*	300	1400		ppbv	1,00	04/04/08 07:20	
Vinyl chloride	A	*270*	4.8	30		ppbv	60	04/03/08 18:06	
Surr: 4-Bromofluorobenzene	S	97.6	0	77.7-127		%REC	60	04/03/08 18:06	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-02B
Collection Date: 03/27/08 09:12
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	*2700*	24	150		ppbv	300	04/03/08 19:24	
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	04/03/08 20:03	
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	04/03/08 20:03	
1,1-Dichloroethane	A	*770*	6	30		ppbv	60	04/03/08 20:03	
1,1-Dichloroethene	A	*42*	4.2	30		ppbv	60	04/03/08 20:03	
1,2-Dichloroethane	A	*62*	6	30		ppbv	60	04/03/08 20:03	
1,2-Dichloropropane	A	*55*	5.4	30		ppbv	60	04/03/08 20:03	
2-Butanone	A	*56*	13	120	J	ppbv	60	04/03/08 20:03	
2-Hexanone	A	*ND*	6.6	120		ppbv	60	04/03/08 20:03	
4-Methyl-2-Pentanone	A	*160*	9.6	30		ppbv	60	04/03/08 20:03	
Acetone	A	*160*	7.2	120		ppbv	60	04/03/08 20:03	UB
Benzene	A	*470*	6	30		ppbv	60	04/03/08 20:03	
Bromodichloromethane	A	*ND*	6	30		ppbv	60	04/03/08 20:03	
Bromoform	A	*ND*	5.4	30		ppbv	60	04/03/08 20:03	
Bromomethane	A	*ND*	4.8	30		ppbv	60	04/03/08 20:03	
Carbon disulfide	A	*460*	20	60		ppbv	60	04/03/08 20:03	JB
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	04/03/08 20:03	
Chlorobenzene	A	*ND*	6.6	30		ppbv	60	04/03/08 20:03	
Chloroethane	A	*160*	6.6	30		ppbv	60	04/03/08 20:03	
Chloroform	A	*940*	6.6	30		ppbv	60	04/03/08 20:03	
Chloromethane	A	*ND*	4.2	120		ppbv	60	04/03/08 20:03	
cis-1,2-Dichloroethene	A	*3500*	26	150		ppbv	300	04/03/08 19:24	
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/03/08 20:03	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	04/03/08 20:03	
Ethyl benzene	A	*1000*	6.6	30		ppbv	60	04/03/08 20:03	
m,p-Xylene	A	*3700*	38	290		ppbv	300	04/03/08 19:24	
Methylene chloride	A	*1100*	26	240		ppbv	60	04/03/08 20:03	B
o-Xylene	A	*1900*	38	150		ppbv	300	04/03/08 19:24	
Styrene	A	*19*	7.8	30	J	ppbv	60	04/03/08 20:03	
Tetrachloroethene	A	*3900*	32	150		ppbv	300	04/03/08 19:24	
Toluene	A	*3700*	32	150		ppbv	300	04/03/08 19:24	
trans-1,2-Dichloroethene	A	*35*	4.8	30		ppbv	60	04/03/08 20:03	
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/03/08 20:03	
Trichloroethene	A	*2000*	32	150		ppbv	300	04/03/08 19:24	
Vinyl chloride	A	*1100*	4.8	30		ppbv	60	04/03/08 20:03	
Surr: 4-Bromofluorobenzene	S	97.8	0	77.7-127		%REC	60	04/03/08 20:03	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-03B
Collection Date: 03/27/08 09:40
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	*2900*	24	150		ppbv	300	04/03/08 21:20	
1,1,2,2-Tetrachloroethane	A	*ND*	8.4	30		ppbv	60	04/03/08 22:02	
1,1,2-Trichloroethane	A	*ND*	6.6	30		ppbv	60	04/03/08 22:02	
1,1-Dichloroethane	A	*790*	6	30		ppbv	60	04/03/08 22:02	
1,1-Dichloroethene	A	*44*	4.2	30		ppbv	60	04/03/08 22:02	
1,2-Dichloroethane	A	*65*	6	30		ppbv	60	04/03/08 22:02	
1,2-Dichloropropane	A	*56*	5.4	30		ppbv	60	04/03/08 22:02	
2-Butanone	A	*44*	13	120	J	ppbv	60	04/03/08 22:02	
2-Hexanone	A	*ND*	6.6	120		ppbv	60	04/03/08 22:02	
4-Methyl-2-Pentanone	A	*120*	9.6	30		ppbv	60	04/03/08 22:02	
Acetone	A	*140*	7.2	120		ppbv	60	04/03/08 22:02	UB
Benzene	A	*450*	6	30		ppbv	60	04/03/08 22:02	
Bromodichloromethane	A	*ND*	6	30		ppbv	60	04/03/08 22:02	
Bromoform	A	*ND*	5.4	30		ppbv	60	04/03/08 22:02	
Bromomethane	A	*ND*	4.8	30		ppbv	60	04/03/08 22:02	
Carbon disulfide	A	*370*	20	60		ppbv	60	04/03/08 22:02	JB
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	04/03/08 22:02	
Chlorobenzene	A	*ND*	6.6	30		ppbv	60	04/03/08 22:02	
Chloroethane	A	*190*	6.6	30		ppbv	60	04/03/08 22:02	
Chloroform	A	*960*	6.6	30		ppbv	60	04/03/08 22:02	
Chloromethane	A	*ND*	4.2	120		ppbv	60	04/03/08 22:02	
cis-1,2-Dichloroethene	A	*3200*	27	150		ppbv	300	04/03/08 21:20	
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/03/08 22:02	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	04/03/08 22:02	
Ethyl benzene	A	*940*	6.6	30		ppbv	60	04/03/08 22:02	
m,p-Xylene	A	*3300*	39	300		ppbv	300	04/03/08 21:20	
Methylene chloride	A	*1000*	26	240		ppbv	60	04/03/08 22:02	B
o-Xylene	A	*1700*	39	150		ppbv	300	04/03/08 21:20	
Styrene	A	*19*	7.8	30	J	ppbv	60	04/03/08 22:02	
Tetrachloroethene	A	*3900*	33	150		ppbv	300	04/03/08 21:20	
Toluene	A	*3200*	33	150		ppbv	300	04/03/08 21:20	
trans-1,2-Dichloroethene	A	*35*	4.8	30		ppbv	60	04/03/08 22:02	
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/03/08 22:02	
Trichloroethene	A	*1900*	33	150		ppbv	300	04/03/08 21:20	
Vinyl chloride	A	*1100*	4.8	30		ppbv	60	04/03/08 22:02	
Surr: 4-Bromofluorobenzene	S	97.4	0	77.7-127		%REC	60	04/03/08 22:02	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

8/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-04B
Collection Date: 03/27/08 09:55
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**	
1,1,1-Trichloroethane	A	*2900*	22	140		ppbv	300	04/03/08 23:26	
1,1,2,2-Tetrachloroethane	A	*ND*	8.3	30		ppbv	60	04/04/08 00:07	
1,1,2-Trichloroethane	A	*ND*	6.5	30		ppbv	60	04/04/08 00:07	
1,1-Dichloroethane	A	*790*	5.9	30		ppbv	60	04/04/08 00:07	
1,1-Dichloroethene	A	*45*	4.2	30		ppbv	60	04/04/08 00:07	
1,2-Dichloroethane	A	*65*	5.9	30		ppbv	60	04/04/08 00:07	
1,2-Dichloropropane	A	*56*	5.3	30		ppbv	60	04/04/08 00:07	
2-Butanone	A	*44*	12	120	J	ppbv	60	04/04/08 00:07	
2-Hexanone	A	*ND*	6.5	120		ppbv	60	04/04/08 00:07	
4-Methyl-2-Pentanone	A	*110*	9.5	30		ppbv	60	04/04/08 00:07	
Acetone	A	*150*	7.1	120		ppbv	60	04/04/08 00:07	UB
Benzene	A	*440*	5.9	30		ppbv	60	04/04/08 00:07	
Bromodichloromethane	A	*ND*	5.9	30		ppbv	60	04/04/08 00:07	
Bromoform	A	*ND*	5.3	30		ppbv	60	04/04/08 00:07	
Bromomethane	A	*ND*	4.8	30		ppbv	60	04/04/08 00:07	
Carbon disulfide	A	*500*	20	59		ppbv	60	04/04/08 00:07	JB
Carbon tetrachloride	A	*ND*	6.5	30		ppbv	60	04/04/08 00:07	
Chlorobenzene	A	*ND*	6.5	30		ppbv	60	04/04/08 00:07	
Chloroethane	A	*200*	6.5	30		ppbv	60	04/04/08 00:07	
Chloroform	A	*920*	6.5	30		ppbv	60	04/04/08 00:07	
Chloromethane	A	*ND*	4.2	120		ppbv	60	04/04/08 00:07	
cis-1,2-Dichloroethene	A	*3200*	25	140		ppbv	300	04/03/08 23:26	
cis-1,3-Dichloropropene	A	*ND*	5.9	30		ppbv	60	04/04/08 00:07	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	04/04/08 00:07	
Ethyl benzene	A	*910*	6.5	30		ppbv	60	04/04/08 00:07	
m,p-Xylene	A	*3300*	35	270		ppbv	300	04/03/08 23:26	
Methylene chloride	A	*1000*	26	240		ppbv	60	04/04/08 00:07	B
o-Xylene	A	*1700*	35	140		ppbv	300	04/03/08 23:26	
Styrene	A	*17*	7.7	30	J	ppbv	60	04/04/08 00:07	
Tetrachloroethene	A	*3800*	30	140		ppbv	300	04/03/08 23:26	
Toluene	A	*3200*	30	140		ppbv	300	04/03/08 23:26	
trans-1,2-Dichloroethene	A	*36*	4.8	30		ppbv	60	04/04/08 00:07	
trans-1,3-Dichloropropene	A	*ND*	5.9	30		ppbv	60	04/04/08 00:07	
Trichloroethene	A	*1900*	30	140		ppbv	300	04/03/08 23:26	
Vinyl chloride	A	*1100*	4.8	30		ppbv	60	04/04/08 00:07	
Surr: 4-Bromofluorobenzene	S	97.5	0	77.7-127		%REC	60	04/04/08 00:07	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-05B
Collection Date: 03/27/08 09:42
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	*38*	0.4	2.5		ppbv	5	04/04/08 08:06	
1,1,2,2-Tetrachloroethane	A	*ND*	0.14	0.50		ppbv	1	04/02/08 15:25	
1,1,2-Trichloroethane	A	*0.3*	0.11	0.50	J	ppbv	1	04/02/08 15:25	
1,1-Dichloroethane	A	*9.6*	0.1	0.50		ppbv	1	04/02/08 15:25	
1,1-Dichloroethene	A	*4.8*	0.07	0.50		ppbv	1	04/02/08 15:25	
1,2-Dichloroethane	A	*1.3*	0.1	0.50		ppbv	1	04/02/08 15:25	
1,2-Dichloropropane	A	*0.35*	0.09	0.50	J	ppbv	1	04/02/08 15:25	
2-Butanone	A	*27*	1	9.9		ppbv	5	04/04/08 08:06	
2-Hexanone	A	*0.75*	0.11	2.0	J	ppbv	1	04/02/08 15:25	
4-Methyl-2-Pentanone	A	*20*	0.16	0.50		ppbv	1	04/02/08 15:25	
Acetone	A	*41*	0.59	9.9		ppbv	5	04/04/08 08:06	B
Benzene	A	*22*	0.5	2.5		ppbv	5	04/04/08 08:06	
Bromodichloromethane	A	*ND*	0.1	0.50		ppbv	1	04/02/08 15:25	
Bromoform	A	*ND*	0.09	0.50		ppbv	1	04/02/08 15:25	
Bromomethane	A	*ND*	0.08	0.50		ppbv	1	04/02/08 15:25	
Carbon disulfide	A	*0.68*	0.33	1.0	Jb	ppbv	1	04/02/08 15:25	1.0 UBJ
Carbon tetrachloride	A	*ND*	0.11	0.50		ppbv	1	04/02/08 15:25	
Chlorobenzene	A	*ND*	0.11	0.50		ppbv	1	04/02/08 15:25	
Chloroethane	A	*0.87*	0.11	0.50		ppbv	1	04/02/08 15:25	
Chloroform	A	*5.1*	0.11	0.50		ppbv	1	04/02/08 15:25	
Chloromethane	A	*0.82*	0.07	2.0	J	ppbv	1	04/02/08 15:25	
cis-1,2-Dichloroethene	A	*10*	0.09	0.50		ppbv	1	04/02/08 15:25	
cis-1,3-Dichloropropene	A	*ND*	0.1	0.50		ppbv	1	04/02/08 15:25	
Dibromochloromethane	A	*ND*	0.07	0.50		ppbv	1	04/02/08 15:25	
Ethyl benzene	A	*19*	0.54	2.5		ppbv	5	04/04/08 08:06	
m,p-Xylene	A	*78*	0.64	5.0		ppbv	5	04/04/08 08:06	
Methylene chloride	A	*53*	2.1	20		ppbv	5	04/04/08 08:06	B
o-Xylene	A	*30*	0.64	2.5		ppbv	5	04/04/08 08:06	
Styrene	A	*1.7*	0.13	0.50		ppbv	1	04/02/08 15:25	
Tetrachloroethene	A	*30*	0.54	2.5		ppbv	5	04/04/08 08:06	
Toluene	A	*170*	2.6	12		ppbv	25	04/02/08 13:26	
trans-1,2-Dichloroethene	A	*1.2*	0.08	0.50		ppbv	1	04/02/08 15:25	
trans-1,3-Dichloropropene	A	*ND*	0.1	0.50		ppbv	1	04/02/08 15:25	
Trichloroethene	A	*26*	0.54	2.5		ppbv	5	04/04/08 08:06	
Vinyl chloride	A	*4.2*	0.08	0.50		ppbv	1	04/02/08 15:25	
Surr: 4-Bromofluorobenzene	S	96.9	0	77.7-127		%REC	1	04/02/08 15:25	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-06B
Collection Date: 03/27/08 10:10
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15**				Prep Date/Time:				Analyst: **MAK**	
1,1,1-Trichloroethane	A	*14000*	200	1200		ppbv	1,00	04/02/08 18:41	
1,1,2,2-Tetrachloroethane	A	*130*	8.4	30		ppbv	60	04/02/08 20:01	
1,1,2-Trichloroethane	A	*110*	6.6	30		ppbv	60	04/02/08 20:01	
1,1-Dichloroethane	A	*2300*	30	150		ppbv	300	04/02/08 19:20	
1,1-Dichloroethene	A	*68*	4.2	30		ppbv	60	04/02/08 20:01	
1,2-Dichloroethane	A	*340*	6	30		ppbv	60	04/02/08 20:01	
1,2-Dichloropropane	A	*100*	5.4	30		ppbv	60	04/02/08 20:01	
2-Butanone	A	*9300*	520	5000		ppbv	1,00	04/02/08 18:41	UB
2-Hexanone	A	*100*	6.6	120	J	ppbv	60	04/02/08 20:01	
4-Methyl-2-Pentanone	A	*3400*	48	150		ppbv	300	04/02/08 19:20	
Acetone	A	*9000*	300	5000		ppbv	1,00	04/02/08 18:41	UB
Benzene	A	*8500*	250	1200		ppbv	1,00	04/02/08 18:41	
Bromodichloromethane	A	*58*	6	30		ppbv	60	04/02/08 20:01	
Bromoform	A	*ND*	5.4	30		ppbv	60	04/02/08 20:01	
Bromomethane	A	*ND*	4.8	30		ppbv	60	04/02/08 20:01	
Carbon disulfide	A	*720*	20	60		ppbv	60	04/02/08 20:01	JB
Carbon tetrachloride	A	*ND*	6.6	30		ppbv	60	04/02/08 20:01	
Chlorobenzene	A	*240*	6.6	30		ppbv	60	04/02/08 20:01	
Chloroethane	A	*650*	6.6	30		ppbv	60	04/02/08 20:01	
Chloroform	A	*1100*	6.6	30		ppbv	60	04/02/08 20:01	
Chloromethane	A	*20*	4.2	120	J	ppbv	60	04/02/08 20:01	
cis-1,2-Dichloroethene	A	*2600*	27	150		ppbv	300	04/02/08 19:20	
cis-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/02/08 20:01	
Dibromochloromethane	A	*ND*	4.2	30		ppbv	60	04/02/08 20:01	
Ethyl benzene	A	*5500*	33	150		ppbv	300	04/02/08 19:20	
m,p-Xylene	A	*29000*	320	2500		ppbv	1,00	04/02/08 18:41	
Methylene chloride	A	*19000*	1100	10000		ppbv	1,00	04/02/08 18:41	B
o-Xylene	A	*11000*	320	1200		ppbv	1,00	04/02/08 18:41	
Styrene	A	*220*	7.8	30		ppbv	60	04/02/08 20:01	
Tetrachloroethene	A	*9000*	270	1200		ppbv	1,00	04/02/08 18:41	
Toluene	A	*49000*	990	4500		ppbv	1,00	04/04/08 17:58	
trans-1,2-Dichloroethene	A	*39*	4.8	30		ppbv	60	04/02/08 20:01	
trans-1,3-Dichloropropene	A	*ND*	6	30		ppbv	60	04/02/08 20:01	
Trichloroethene	A	*9400*	270	1200		ppbv	1,00	04/02/08 18:41	
Vinyl chloride	A	*900*	4.8	30		ppbv	60	04/02/08 20:01	
Surr: 4-Bromofluorobenzene	S	98.6	0	77.7-127		%REC	60	04/02/08 20:01	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-07B
Collection Date: 03/27/08 10:40
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	***16000***	220	1400		ppbv	1,00(	04/02/08 16:03	
1,1,2,2-Tetrachloroethane	A	***140***	8.4	30		ppbv	60	04/02/08 18:01	
1,1,2-Trichloroethane	A	***120***	6.6	30		ppbv	60	04/02/08 18:01	
1,1-Dichloroethane	A	***2600***	30	150		ppbv	300	04/02/08 16:42	
1,1-Dichloroethene	A	***75***	4.2	30		ppbv	60	04/02/08 18:01	
1,2-Dichloroethane	A	***370***	6	30		ppbv	60	04/02/08 18:01	
1,2-Dichloropropane	A	***110***	5.4	30		ppbv	60	04/02/08 18:01	
2-Butanone	A	***9800***	570	5500		ppbv	1,00(	04/02/08 16:03	UB
2-Hexanone	A	***ND***	6.6	120		ppbv	60	04/02/08 18:01	
4-Methyl-2-Pentanone	A	***3700***	48	150		ppbv	300	04/02/08 16:42	J
Acetone	A	***10000***	330	5500		ppbv	1,00(	04/02/08 16:03	JUB
Benzene	A	***10000***	270	1400		ppbv	1,00(	04/02/08 16:03	
Bromodichloromethane	A	***ND***	6	30		ppbv	60	04/02/08 18:01	
Bromoform	A	***ND***	5.4	30		ppbv	60	04/02/08 18:01	
Bromomethane	A	***ND***	4.8	30		ppbv	60	04/02/08 18:01	
Carbon disulfide	A	***300***	20	60		ppbv	60	04/02/08 18:01	UBJ
Carbon tetrachloride	A	***ND***	6.6	30		ppbv	60	04/02/08 18:01	
Chlorobenzene	A	***ND***	6.6	30		ppbv	60	04/02/08 18:01	
Chloroethane	A	***890***	6.6	30		ppbv	60	04/02/08 18:01	
Chloroform	A	***1100***	6.6	30		ppbv	60	04/02/08 18:01	
Chloromethane	A	***21***	4.2	120	J	ppbv	60	04/02/08 18:01	
cis-1,2-Dichloroethene	A	***3300***	27	150		ppbv	300	04/02/08 16:42	
cis-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	04/02/08 18:01	
Dibromochloromethane	A	***ND***	4.2	30		ppbv	60	04/02/08 18:01	
Ethyl benzene	A	***5900***	33	150		ppbv	300	04/02/08 16:42	
m,p-Xylene	A	***33000***	350	2700		ppbv	1,00(	04/02/08 16:03	J
Methylene chloride	A	***22000***	1200	11000		ppbv	1,00(	04/02/08 16:03	B
o-Xylene	A	***12000***	350	1400		ppbv	1,00(	04/02/08 16:03	
Styrene	A	***240***	7.8	30		ppbv	60	04/02/08 18:01	
Tetrachloroethene	A	***11000***	300	1400		ppbv	1,00(	04/02/08 16:03	
Toluene	A	***54000***	990	4500		ppbv	1,00(	04/04/08 17:20	J
trans-1,2-Dichloroethene	A	***47***	4.8	30		ppbv	60	04/02/08 18:01	
trans-1,3-Dichloropropene	A	***ND***	6	30		ppbv	60	04/02/08 18:01	
Trichloroethene	A	***11000***	300	1400		ppbv	1,00(	04/02/08 16:03	
Vinyl chloride	A	***1200***	4.8	30		ppbv	60	04/02/08 18:01	
Surr: 4-Bromofluorobenzene	S	99.5	0	77.7-127		%REC	60	04/02/08 18:01	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #8 TOX 2 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-08B
Collection Date: 03/27/08 10:55
Date Received: 03/27/08 12:08

TOXIC ORGANICS IN AIR BY GC/MS Method: **TO-15** Prep Date/Time: Analyst: **MAK**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,1,1-Trichloroethane	A	*300*	1.9	12		ppbv	25	04/02/08 12:48	
1,1,2,2-Tetrachloroethane	A	*1.1*	0.14	0.50		ppbv	1	04/02/08 14:06	
1,1,2-Trichloroethane	A	*2.8*	0.11	0.50		ppbv	1	04/02/08 14:06	
1,1-Dichloroethane	A	*61*	2.4	12		ppbv	25	04/02/08 12:48	
1,1-Dichloroethene	A	*72*	1.7	12		ppbv	25	04/02/08 12:48	
1,2-Dichloroethane	A	*8.6*	0.1	0.50		ppbv	1	04/02/08 14:06	
1,2-Dichloropropane	A	*2.2*	0.09	0.50		ppbv	1	04/02/08 14:06	
2-Butanone	A	*150*	5	48		ppbv	25	04/02/08 12:48	B
2-Hexanone	A	*3.3*	0.11	2.0		ppbv	1	04/02/08 14:06	
4-Methyl-2-Pentanone	A	*52*	3.8	12		ppbv	25	04/02/08 12:48	
Acetone	A	*240*	2.9	48		ppbv	25	04/02/08 12:48	MB
Benzene	A	*310*	2.4	12		ppbv	25	04/02/08 12:48	
Bromodichloromethane	A	*1.6*	0.1	0.50		ppbv	1	04/02/08 14:06	
Bromoform	A	*ND*	0.09	0.50		ppbv	1	04/02/08 14:06	
Bromomethane	A	*ND*	0.08	0.50		ppbv	1	04/02/08 14:06	
Carbon disulfide	A	*0.89*	0.33	1.0	Jb	ppbv	1	04/02/08 14:06	0B J
Carbon tetrachloride	A	*0.76*	0.11	0.50		ppbv	1	04/02/08 14:06	
Chlorobenzene	A	*3.8*	0.11	0.50		ppbv	1	04/02/08 14:06	
Chloroethane	A	*15*	0.11	0.50		ppbv	1	04/02/08 14:06	
Chloroform	A	*32*	2.6	12		ppbv	25	04/02/08 12:48	
Chloromethane	A	*6.4*	0.07	2.0		ppbv	1	04/02/08 14:06	
cis-1,2-Dichloroethene	A	*69*	2.1	12		ppbv	25	04/02/08 12:48	
cis-1,3-Dichloropropene	A	*0.51*	0.1	0.50		ppbv	1	04/02/08 14:06	
Dibromochloromethane	A	*ND*	0.07	0.50		ppbv	1	04/02/08 14:06	
Ethyl benzene	A	*96*	2.6	12		ppbv	25	04/02/08 12:48	
m,p-Xylene	A	*350*	3.1	24		ppbv	25	04/02/08 12:48	
Methylene chloride	A	*370*	10	95		ppbv	25	04/02/08 12:48	B
o-Xylene	A	*130*	3.1	12		ppbv	25	04/02/08 12:48	
Styrene	A	*24*	3.1	12		ppbv	25	04/02/08 12:48	
Tetrachloroethene	A	*230*	2.6	12		ppbv	25	04/02/08 12:48	
Toluene	A	*1000*	13	60		ppbv	120	04/04/08 16:41	
trans-1,2-Dichloroethene	A	*8.7*	0.08	0.50		ppbv	1	04/02/08 14:06	
trans-1,3-Dichloropropene	A	*0.57*	0.1	0.50		ppbv	1	04/02/08 14:06	
Trichloroethene	A	*220*	2.6	12		ppbv	25	04/02/08 12:48	
Vinyl chloride	A	*49*	1.9	12		ppbv	25	04/02/08 12:48	
Surr: 4-Bromofluorobenzene	S	99.6	0	77.7-127		%REC	1	04/02/08 14:06	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #1 OFFSITE ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-01A
Collection Date: 03/27/08 09:10
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	04/04/08 23:14	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/04/08 23:14	
1,4-Dichlorobenzene	A	2.8	0.9	10	J	µg, Total	1	04/04/08 23:14	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/04/08 23:14	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:14	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/04/08 23:14	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/04/08 23:14	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/04/08 23:14	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/04/08 23:14	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:14	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:14	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/04/08 23:14	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/04/08 23:14	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/04/08 23:14	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/04/08 23:14	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/04/08 23:14	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/04/08 23:14	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/04/08 23:14	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/04/08 23:14	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/04/08 23:14	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/04/08 23:14	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/04/08 23:14	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
Bis(2-ethylhexyl)phthalate	A	1.5	1.1	10	J	µg, Total	1	04/04/08 23:14	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/04/08 23:14	
Carbazole	A	ND	1.2	10		µg, Total	1	04/04/08 23:14	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/04/08 23:14	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/04/08 23:14	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/04/08 23:14	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/04/08 23:14	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/04/08 23:14	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #1 OFFSITE ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-01A
Collection Date: 03/27/08 09:10
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	04/04/08 23:14
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	04/04/08 23:14
Hexachloroethane	A	ND	0.9	10		µg, Total	1	04/04/08 23:14
Isophorone	A	3.5	1	10	J	µg, Total	1	04/04/08 23:14
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	04/04/08 23:14
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	04/04/08 23:14
Nitrobenzene	A	ND	1	10		µg, Total	1	04/04/08 23:14
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	04/04/08 23:14
Phenol	A	ND	0.4	10		µg, Total	1	04/04/08 23:14
Surr: 2,4,6-Tribromophenol	S	82.6	0	30-130		%REC	1	04/04/08 23:14
Surr: 2-Fluorobiphenyl	S	90.0	0	30-130		%REC	1	04/04/08 23:14
Surr: 2-Fluorophenol	S	64.9	0	30-130		%REC	1	04/04/08 23:14
Surr: Nitrobenzene-d5	S	76.9	0	30-130		%REC	1	04/04/08 23:14
Surr: Phenol-d5	S	74.8	0	30-130		%REC	1	04/04/08 23:14
Surr: Terphenyl-d14	S	89.3	0	30-130		%REC	1	04/04/08 23:14

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Acenaphthene	A	ND	0.21	1.0		µg, Total	1	04/04/08 23:14
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	04/04/08 23:14
Anthracene	A	ND	0.27	1.0		µg, Total	1	04/04/08 23:14
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	04/04/08 23:14
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	04/04/08 23:14
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	04/04/08 23:14
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	04/04/08 23:14
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	04/04/08 23:14
Chrysene	A	ND	0.57	1.0		µg, Total	1	04/04/08 23:14
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	04/04/08 23:14
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	04/04/08 23:14
Fluorene	A	ND	0.25	1.0		µg, Total	1	04/04/08 23:14
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	04/04/08 23:14
Naphthalene	A	5.4	0.16	1.0		µg, Total	1	04/04/08 23:14
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	04/04/08 23:14
Pyrene	A	ND	0.44	1.0		µg, Total	1	04/04/08 23:14
Surr: Nitrobenzene-d5	S	76.9	0	30-130		%REC	1	04/04/08 23:14
Surr: 2-Fluorobiphenyl	S	90.0	0	30-130		%REC	1	04/04/08 23:14
Surr: Terphenyl-d14	S	89.3	0	30-130		%REC	1	04/04/08 23:14

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-02A
Collection Date: 03/27/08 09:12
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
1,2-Dichlorobenzene	A	1.9	0.7	10	J	µg, Total	1	04/04/08 23:39	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/04/08 23:39	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/04/08 23:39	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:39	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/04/08 23:39	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/04/08 23:39	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/04/08 23:39	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/04/08 23:39	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:39	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/04/08 23:39	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/04/08 23:39	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/04/08 23:39	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/04/08 23:39	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/04/08 23:39	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/04/08 23:39	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/04/08 23:39	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/04/08 23:39	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/04/08 23:39	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/04/08 23:39	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/04/08 23:39	uJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/04/08 23:39	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
Bis(2-ethylhexyl)phthalate	A	ND	1.1	10		µg, Total	1	04/04/08 23:39	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/04/08 23:39	
Carbazole	A	ND	1.2	10		µg, Total	1	04/04/08 23:39	uJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/04/08 23:39	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/04/08 23:39	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/04/08 23:39	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/04/08 23:39	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/04/08 23:39	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-02A
Collection Date: 03/27/08 09:12
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Hexachlorobutadiene	A	*ND*	0.9	10		µg, Total	1	04/04/08 23:39
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	04/04/08 23:39
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	04/04/08 23:39
Isophorone	A	*ND*	1	10		µg, Total	1	04/04/08 23:39
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	04/04/08 23:39
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	04/04/08 23:39
Nitrobenzene	A	*ND*	1	10		µg, Total	1	04/04/08 23:39
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	04/04/08 23:39
Phenol	A	*ND*	0.4	10		µg, Total	1	04/04/08 23:39
Surr: 2,4,6-Tribromophenol	S	66.4	0	30-130		%REC	1	04/04/08 23:39
Surr: 2-Fluorobiphenyl	S	64.6	0	30-130		%REC	1	04/04/08 23:39
Surr: 2-Fluorophenol	S	45.3	0	30-130		%REC	1	04/04/08 23:39
Surr: Nitrobenzene-d5	S	55.0	0	30-130		%REC	1	04/04/08 23:39
Surr: Phenol-d5	S	54.4	0	30-130		%REC	1	04/04/08 23:39
Surr: Terphenyl-d14	S	74.4	0	30-130		%REC	1	04/04/08 23:39
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	04/04/08 23:39
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	04/04/08 23:39
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	04/04/08 23:39
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	04/04/08 23:39
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	04/04/08 23:39
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	04/04/08 23:39
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	04/04/08 23:39
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	04/04/08 23:39
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	04/04/08 23:39
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	04/04/08 23:39
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	04/04/08 23:39
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	04/04/08 23:39
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	04/04/08 23:39
Naphthalene	A	*0.58*	0.16	1.0	J	µg, Total	1	04/04/08 23:39
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	04/04/08 23:39
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	04/04/08 23:39
Surr: Nitrobenzene-d5	S	55.0	0	30-130		%REC	1	04/04/08 23:39
Surr: 2-Fluorobiphenyl	S	64.6	0	30-130		%REC	1	04/04/08 23:39
Surr: Terphenyl-d14	S	74.4	0	30-130		%REC	1	04/04/08 23:39

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-03A
Collection Date: 03/27/08 09:40
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
1,2-Dichlorobenzene	A	2	0.7	10	J	µg, Total	1	04/05/08 00:05	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 00:05	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 00:05	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:05	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:05	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 00:05	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 00:05	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 00:05	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:05	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:05	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 00:05	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 00:05	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 00:05	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 00:05	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:05	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 00:05	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 00:05	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 00:05	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 00:05	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 00:05	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 00:05	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
Bis(2-ethylhexyl)phthalate	A	1.8	1.1	10	J	µg, Total	1	04/05/08 00:05	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/05/08 00:05	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 00:05	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 00:05	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:05	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 00:05	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:05	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

9/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #3 TOX 1 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-03A
Collection Date: 03/27/08 09:40
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	04/05/08 00:05
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	04/05/08 00:05
Hexachloroethane	A	ND	0.9	10		µg, Total	1	04/05/08 00:05
Isophorone	A	ND	1	10		µg, Total	1	04/05/08 00:05
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	04/05/08 00:05
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	04/05/08 00:05
Nitrobenzene	A	ND	1	10		µg, Total	1	04/05/08 00:05
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	04/05/08 00:05
Phenol	A	ND	0.4	10		µg, Total	1	04/05/08 00:05
Surr: 2,4,6-Tribromophenol	S	81.0	0	30-130		%REC	1	04/05/08 00:05
Surr: 2-Fluorobiphenyl	S	85.5	0	30-130		%REC	1	04/05/08 00:05
Surr: 2-Fluorophenol	S	62.3	0	30-130		%REC	1	04/05/08 00:05
Surr: Nitrobenzene-d5	S	72.7	0	30-130		%REC	1	04/05/08 00:05
Surr: Phenol-d5	S	72.0	0	30-130		%REC	1	04/05/08 00:05
Surr: Terphenyl-d14	S	83.8	0	30-130		%REC	1	04/05/08 00:05
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	04/05/08 00:05
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	04/05/08 00:05
Anthracene	A	ND	0.27	1.0		µg, Total	1	04/05/08 00:05
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	04/05/08 00:05
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	04/05/08 00:05
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	04/05/08 00:05
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	04/05/08 00:05
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	04/05/08 00:05
Chrysene	A	ND	0.57	1.0		µg, Total	1	04/05/08 00:05
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	04/05/08 00:05
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	04/05/08 00:05
Fluorene	A	ND	0.25	1.0		µg, Total	1	04/05/08 00:05
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	04/05/08 00:05
Naphthalene	A	*0.95*	0.16	1.0	J	µg, Total	1	04/05/08 00:05
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	04/05/08 00:05
Pyrene	A	ND	0.44	1.0		µg, Total	1	04/05/08 00:05
Surr: Nitrobenzene-d5	S	72.7	0	30-130		%REC	1	04/05/08 00:05
Surr: 2-Fluorobiphenyl	S	85.5	0	30-130		%REC	1	04/05/08 00:05
Surr: Terphenyl-d14	S	83.8	0	30-130		%REC	1	04/05/08 00:05

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-04A
Collection Date: 03/27/08 09:55
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
1,2-Dichlorobenzene	A	2.7	0.7	10	J	µg, Total	1	04/05/08 00:30	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 00:30	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 00:30	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:30	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:30	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 00:30	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 00:30	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 00:30	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:30	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:30	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 00:30	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 00:30	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 00:30	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 00:30	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:30	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 00:30	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 00:30	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 00:30	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 00:30	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 00:30	uJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 00:30	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
Bis(2-ethylhexyl)phthalate	A	1.9	1.1	10	J	µg, Total	1	04/05/08 00:30	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/05/08 00:30	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 00:30	uJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 00:30	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:30	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 00:30	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:30	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:30	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #4 TOX 1 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-04A
Collection Date: 03/27/08 09:55
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Hexachlorobutadiene	A	*0.93*	0.9	10	J	µg, Total	1	04/05/08 00:30
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	04/05/08 00:30
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	04/05/08 00:30
Isophorone	A	*ND*	1	10		µg, Total	1	04/05/08 00:30
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	04/05/08 00:30
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	04/05/08 00:30
Nitrobenzene	A	*ND*	1	10		µg, Total	1	04/05/08 00:30
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	04/05/08 00:30
Phenol	A	*ND*	0.4	10		µg, Total	1	04/05/08 00:30
Surr: 2,4,6-Tribromophenol	S	89.7	0	30-130		%REC	1	04/05/08 00:30
Surr: 2-Fluorobiphenyl	S	95.5	0	30-130		%REC	1	04/05/08 00:30
Surr: 2-Fluorophenol	S	68.8	0	30-130		%REC	1	04/05/08 00:30
Surr: Nitrobenzene-d5	S	75.6	0	30-130		%REC	1	04/05/08 00:30
Surr: Phenol-d5	S	71.3	0	30-130		%REC	1	04/05/08 00:30
Surr: Terphenyl-d14	S	96.4	0	30-130		%REC	1	04/05/08 00:30
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	04/05/08 00:30
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	04/05/08 00:30
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 00:30
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	04/05/08 00:30
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	04/05/08 00:30
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 00:30
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	04/05/08 00:30
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	04/05/08 00:30
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	04/05/08 00:30
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	04/05/08 00:30
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	04/05/08 00:30
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	04/05/08 00:30
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	04/05/08 00:30
Naphthalene	A	*1.2*	0.16	1.0		µg, Total	1	04/05/08 00:30
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 00:30
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 00:30
Surr: Nitrobenzene-d5	S	75.6	0	30-130		%REC	1	04/05/08 00:30
Surr: 2-Fluorobiphenyl	S	95.5	0	30-130		%REC	1	04/05/08 00:30
Surr: Terphenyl-d14	S	96.4	0	30-130		%REC	1	04/05/08 00:30

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-05A
Collection Date: 03/27/08 09:42
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	04/05/08 00:56	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 00:56	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 00:56	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:56	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:56	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 00:56	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 00:56	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 00:56	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:56	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 00:56	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 00:56	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 00:56	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 00:56	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 00:56	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 00:56	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 00:56	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 00:56	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 00:56	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 00:56	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 00:56	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 00:56	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
Bis(2-ethylhexyl)phthalate	A	2.7	1.1	10	J	µg, Total	1	04/05/08 00:56	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/05/08 00:56	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 00:56	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 00:56	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:56	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 00:56	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 00:56	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

8/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #5 TOX 1 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-05A
Collection Date: 03/27/08 09:42
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	04/05/08 00:56
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	04/05/08 00:56
Hexachloroethane	A	ND	0.9	10		µg, Total	1	04/05/08 00:56
Isophorone	A	ND	1	10		µg, Total	1	04/05/08 00:56
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	04/05/08 00:56
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	04/05/08 00:56
Nitrobenzene	A	ND	1	10		µg, Total	1	04/05/08 00:56
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	04/05/08 00:56
Phenol	A	ND	0.4	10		µg, Total	1	04/05/08 00:56
Surr: 2,4,6-Tribromophenol	S	77.9	0	30-130		%REC	1	04/05/08 00:56
Surr: 2-Fluorobiphenyl	S	87.8	0	30-130		%REC	1	04/05/08 00:56
Surr: 2-Fluorophenol	S	60.0	0	30-130		%REC	1	04/05/08 00:56
Surr: Nitrobenzene-d5	S	69.1	0	30-130		%REC	1	04/05/08 00:56
Surr: Phenol-d5	S	65.2	0	30-130		%REC	1	04/05/08 00:56
Surr: Terphenyl-d14	S	83.4	0	30-130		%REC	1	04/05/08 00:56
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	04/05/08 00:56
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	04/05/08 00:56
Anthracene	A	ND	0.27	1.0		µg, Total	1	04/05/08 00:56
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	04/05/08 00:56
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	04/05/08 00:56
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	04/05/08 00:56
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	04/05/08 00:56
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	04/05/08 00:56
Chrysene	A	ND	0.57	1.0		µg, Total	1	04/05/08 00:56
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	04/05/08 00:56
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	04/05/08 00:56
Fluorene	A	ND	0.25	1.0		µg, Total	1	04/05/08 00:56
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	04/05/08 00:56
Naphthalene	A	ND	0.16	1.0		µg, Total	1	04/05/08 00:56
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	04/05/08 00:56
Pyrene	A	ND	0.44	1.0		µg, Total	1	04/05/08 00:56
Surr: Nitrobenzene-d5	S	69.1	0	30-130		%REC	1	04/05/08 00:56
Surr: 2-Fluorobiphenyl	S	87.8	0	30-130		%REC	1	04/05/08 00:56
Surr: Terphenyl-d14	S	83.4	0	30-130		%REC	1	04/05/08 00:56

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-06A
Collection Date: 03/27/08 10:10
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
1,2-Dichlorobenzene	A	6.8	0.7	10	J	µg, Total	1	04/05/08 01:21	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 01:21	
1,4-Dichlorobenzene	A	1.3	0.9	10	J	µg, Total	1	04/05/08 01:21	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 01:21	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:21	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 01:21	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 01:21	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 01:21	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 01:21	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:21	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:21	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 01:21	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 01:21	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 01:21	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 01:21	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 01:21	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 01:21	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 01:21	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 01:21	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 01:21	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 01:21	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 01:21	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
Bis(2-ethylhexyl)phthalate	A	6.6	1.1	10	J	µg, Total	1	04/05/08 01:21	
Butyl benzyl phthalate	A	1.5	1	10	J	µg, Total	1	04/05/08 01:21	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 01:21	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 01:21	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 01:21	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 01:21	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 01:21	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 01:21	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #6 TOX 2 INFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-06A
Collection Date: 03/27/08 10:10
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Hexachlorobutadiene	A	*ND*	0.9	10		µg, Total	1	04/05/08 01:21
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	04/05/08 01:21
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	04/05/08 01:21
Isophorone	A	*4.6*	1	10	J	µg, Total	1	04/05/08 01:21
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	04/05/08 01:21
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	04/05/08 01:21
Nitrobenzene	A	*ND*	1	10		µg, Total	1	04/05/08 01:21
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	04/05/08 01:21
Phenol	A	*ND*	0.4	10		µg, Total	1	04/05/08 01:21
Surr: 2,4,6-Tribromophenol	S	104	0	30-130		%REC	1	04/05/08 01:21
Surr: 2-Fluorobiphenyl	S	120	0	30-130		%REC	1	04/05/08 01:21
Surr: 2-Fluorophenol	S	87.0	0	30-130		%REC	1	04/05/08 01:21
Surr: Nitrobenzene-d5	S	104	0	30-130		%REC	1	04/05/08 01:21
Surr: Phenol-d5	S	102	0	30-130		%REC	1	04/05/08 01:21
Surr: Terphenyl-d14	S	108	0	30-130		%REC	1	04/05/08 01:21
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**	Analyst: **BEM**	
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	04/05/08 01:21
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	04/05/08 01:21
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 01:21
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	04/05/08 01:21
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	04/05/08 01:21
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 01:21
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	04/05/08 01:21
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	04/05/08 01:21
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	04/05/08 01:21
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	04/05/08 01:21
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	04/05/08 01:21
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	04/05/08 01:21
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	04/05/08 01:21
Naphthalene	A	*5.4*	0.16	1.0		µg, Total	1	04/05/08 01:21
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 01:21
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 01:21
Surr: Nitrobenzene-d5	S	104	0	30-130		%REC	1	04/05/08 01:21
Surr: 2-Fluorobiphenyl	S	120	0	30-130		%REC	1	04/05/08 01:21
Surr: Terphenyl-d14	S	108	0	30-130		%REC	1	04/05/08 01:21

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-07A
Collection Date: 03/27/08 10:40
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
1,2-Dichlorobenzene	A	5.4	0.7	10	J	µg, Total	1	04/05/08 01:47	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 01:47	
1,4-Dichlorobenzene	A	0.92	0.9	10	J	µg, Total	1	04/05/08 01:47	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 01:47	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:47	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 01:47	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 01:47	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 01:47	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 01:47	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:47	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 01:47	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 01:47	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 01:47	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 01:47	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 01:47	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 01:47	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 01:47	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 01:47	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 01:47	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 01:47	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 01:47	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 01:47	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
Bis(2-ethylhexyl)phthalate	A	3.8	1.1	10	J	µg, Total	1	04/05/08 01:47	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/05/08 01:47	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 01:47	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 01:47	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 01:47	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 01:47	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 01:47	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 01:47	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #7 TOX 2 INFLUENT (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-07A
Collection Date: 03/27/08 10:40
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**		Analyst: **BEM**
Hexachlorobutadiene	A	*ND*	0.9	10		µg, Total	1	04/05/08 01:47
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	04/05/08 01:47
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	04/05/08 01:47
Isophorone	A	*4*	1	10	J	µg, Total	1	04/05/08 01:47
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	04/05/08 01:47
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	04/05/08 01:47
Nitrobenzene	A	*ND*	1	10		µg, Total	1	04/05/08 01:47
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	04/05/08 01:47
Phenol	A	*ND*	0.4	10		µg, Total	1	04/05/08 01:47
Surr: 2,4,6-Tribromophenol	S	96.6	0	30-130		%REC	1	04/05/08 01:47
Surr: 2-Fluorobiphenyl	S	102	0	30-130		%REC	1	04/05/08 01:47
Surr: 2-Fluorophenol	S	68.5	0	30-130		%REC	1	04/05/08 01:47
Surr: Nitrobenzene-d5	S	83.8	0	30-130		%REC	1	04/05/08 01:47
Surr: Phenol-d5	S	83.8	0	30-130		%REC	1	04/05/08 01:47
Surr: Terphenyl-d14	S	93.6	0	30-130		%REC	1	04/05/08 01:47
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**		Analyst: **BEM**
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	04/05/08 01:47
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	04/05/08 01:47
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 01:47
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	04/05/08 01:47
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	04/05/08 01:47
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 01:47
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	04/05/08 01:47
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	04/05/08 01:47
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	04/05/08 01:47
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	04/05/08 01:47
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	04/05/08 01:47
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	04/05/08 01:47
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	04/05/08 01:47
Naphthalene	A	*4.6*	0.16	1.0		µg, Total	1	04/05/08 01:47
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 01:47
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 01:47
Surr: Nitrobenzene-d5	S	83.8	0	30-130		%REC	1	04/05/08 01:47
Surr: 2-Fluorobiphenyl	S	102	0	30-130		%REC	1	04/05/08 01:47
Surr: Terphenyl-d14	S	93.6	0	30-130		%REC	1	04/05/08 01:47

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #8 TOX 2 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-08A
Collection Date: 03/27/08 10:55
Date Received: 03/27/08 12:08

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **04/03/08 08:49** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	04/05/08 02:12	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	04/05/08 02:12	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	04/05/08 02:12	
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 02:12	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 02:12	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	04/05/08 02:12	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	04/05/08 02:12	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	04/05/08 02:12	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	04/05/08 02:12	
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	04/05/08 02:12	
2-Nitroaniline	A	ND	1	50		µg, Total	1	04/05/08 02:12	
2-Nitrophenol	A	ND	1	10		µg, Total	1	04/05/08 02:12	
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	04/05/08 02:12	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	04/05/08 02:12	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	04/05/08 02:12	
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	04/05/08 02:12	
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	04/05/08 02:12	
4-Chloroaniline	A	ND	1	20		µg, Total	1	04/05/08 02:12	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	04/05/08 02:12	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	04/05/08 02:12	UJ
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	04/05/08 02:12	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
Bis(2-chloroisopropyl)ether	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
Bis(2-ethylhexyl)phthalate	A	12	1.1	10		µg, Total	1	04/05/08 02:12	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	04/05/08 02:12	
Carbazole	A	ND	1.2	10		µg, Total	1	04/05/08 02:12	UJ
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	04/05/08 02:12	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 02:12	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	04/05/08 02:12	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	04/05/08 02:12	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	04/05/08 02:12	

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

5/15/08

Microbac

ANALYTICAL RESULTS

Date: *Wednesday, May 14, 2008*

Client: MWH, Inc.
Client Project: Monthly Air / ACS - March 2008
Client Sample ID: #8 TOX 2 EFFLUENT
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0803B04-08A
Collection Date: 03/27/08 10:55
Date Received: 03/27/08 12:08

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **04/03/08 08:49**		Analyst: **BEM**
Hexachlorobutadiene	A	*ND*	0.9	10		µg, Total	1	04/05/08 02:12
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	04/05/08 02:12
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	04/05/08 02:12
Isophorone	A	*ND*	1	10		µg, Total	1	04/05/08 02:12
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	04/05/08 02:12
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	04/05/08 02:12
Nitrobenzene	A	*ND*	1	10		µg, Total	1	04/05/08 02:12
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	04/05/08 02:12
Phenol	A	*ND*	0.4	10		µg, Total	1	04/05/08 02:12
Surr: 2,4,6-Tribromophenol	S	79.8	0	30-130		%REC	1	04/05/08 02:12
Surr: 2-Fluorobiphenyl	S	89.2	0	30-130		%REC	1	04/05/08 02:12
Surr: 2-Fluorophenol	S	60.1	0	30-130		%REC	1	04/05/08 02:12
Surr: Nitrobenzene-d5	S	76.0	0	30-130		%REC	1	04/05/08 02:12
Surr: Phenol-d5	S	79.5	0	30-130		%REC	1	04/05/08 02:12
Surr: Terphenyl-d14	S	83.6	0	30-130		%REC	1	04/05/08 02:12
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **04/03/08 08:49**		Analyst: **BEM**
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	04/05/08 02:12
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	04/05/08 02:12
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 02:12
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	04/05/08 02:12
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	04/05/08 02:12
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 02:12
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	04/05/08 02:12
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	04/05/08 02:12
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	04/05/08 02:12
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	04/05/08 02:12
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	04/05/08 02:12
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	04/05/08 02:12
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	04/05/08 02:12
Naphthalene	A	*ND*	0.16	1.0		µg, Total	1	04/05/08 02:12
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	04/05/08 02:12
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	04/05/08 02:12
Surr: Nitrobenzene-d5	S	76.0	0	30-130		%REC	1	04/05/08 02:12
Surr: 2-Fluorobiphenyl	S	89.2	0	30-130		%REC	1	04/05/08 02:12
Surr: Terphenyl-d14	S	83.6	0	30-130		%REC	1	04/05/08 02:12