QUARTERLY MONITORING REPORT
ACTIVE TREATMENT SYSTEMS
THIRD QUARTER 2007

AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA

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Prepared For:

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

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MWH

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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 July 2007 through September 2007. 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 (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 July 2007 and analyzed for all of the analytes listed above. During August and September 2007, 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 third quarter of 2007. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

July 10, 2007	Full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs, pentachlorophenol, and PCBs)
August 7, 2007	pH and VOCs
September 20, 2007	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 for the third quarter of 2007 is summarized in Table 2.2. The sample results for the July 2007 effluent compliance sample for the GWTP indicated that the vinyl chloride concentration (2.1 µg/L) exceeded the discharge limit of 2 µg/L (Table 2.1). The August 2007 effluent compliance sample results were received shortly after the July results. The August data indicated a vinyl chloride result of 0.0092 µg/L, below the effluent limits. Based on this information, MWH believes that the vinyl chloride detection in July was anomalous. MWH will continue to monitor effluent concentrations. No effluent exceedences were reported in the August or September 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 third quarter of 2007, 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 July 11th, August 10th, and September 26th.

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 (July) and TO-14 (August, September)
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, as was done for the samples collected during the July sampling event. Due to a laboratory instrument malfunction, samples collected in August and September were analyzed by the backup laboratory, Air Toxics, Inc. of Folsom, California. Air Toxics analyzes air samples by Method TO-14.

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 July, August, and September. The highest VOC discharge rate observed during these sampling events was the August 10, 2007 Therm Ox 2 sample, which was measured at 0.884 pounds per hour or 21.22 pounds per day. Although the hourly discharge rate for this sample was below the permit equivalency limit of three pounds per hour, the daily discharge rate of 15 pounds was exceeded.

Influent concentrations into the oxidizer from the Off-Site Area ISVE system were significantly higher than recent trends. The influent mass flow into ThermOx 2 was 21.4 lbs/hr, compared to an average of 6.0 lbs/hr during the previous three sampling events. Analytical results for both July and September indicated effluent VOC discharge rates below the permit equivalency limits. 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 spike in VOC mass from the Off-Site Area system may have been the result of enhanced removal rates during the pilot testing of steam injection (see Section 5.1). Although the oxidizer has the capability to treat vapors at these higher concentrations, the oxidizer chamber temperature setpoint had previously been adjusted lower since influent concentrations were observed to be low. Lowering the chamber temperature setpoint reduces natural gas usage. As long as sufficient destruction efficiency is maintained, VOC mass in the effluent from the oxidizer should be below discharge limits. Recent influent trends indicate that concentrations are now low enough to maintain the lower chamber temperature. However, should concentrations increase as they would if a full-scale steam injection system were installed, operational settings at the oxidizer will need to be adjusted.

In addition to the off-gas data collected during the third 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.

The analytical results for air sampling are summarized in Tables 3.1 through 3.18. The analytical data sheets for the compliance samples are provided in Appendix B. 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.

A portion of the analytical results for SVOC samples collected during the quarter were rejected during the data validation process. The rejected data was limited to acid compounds and were rejected due to low surrogate recoveries. The analytical laboratory conducted an investigation and determined that the problem was the use of an incorrect sorbent tube to collect the sample. As of February 2008, the necessary corrective actions have been taken and samples collected after this date should pass the validation process.

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 third quarter of 2007 are presented in Tables 3.19 and 3.20. Data that were collected from the SBPA ISVE system during the third quarter of 2007 are presented in Tables 3.21 and 3.22.

3.4 PRODUCT REMOVAL ACTIVITIES

No product removal activities were performed from the SBPA target wells during the third quarter of 2007. Independent Environmental Services has been subcontracted to perform product removal activities at selected wells at the ACS Site. Product removal activities will begin in the fourth quarter of 2007.

4.0 GWTP PROCESS MODIFICATIONS AND REPAIRS

4.1 GWTP PROCESS MODIFICATIONS

The following modification was made to the GWTP during the third quarter of 2007.

- The Lower Aquifer Pumping System was completed in August 2007. However, due to power outages from heavy thunderstorms on August 15, 2007, the system did not begin full operation until September 2007.

- Since September, the pumps in wells MW-53 and LA-14 have been pumping influent to the GWTP at a rate of 5 gallons per minute, and the pump in MW-30 has been pumping influent to the GWTP at a rate of 2 gallons per minute. In addition to the Lower Aquifer Pumping System, the pump in MW-10C was brought online and is pumping to the GWTP at a rate of 2 gallons per minute.

4.2 GWTP REPAIRS AND MAINTENANCE

The following repairs and/or maintenance activities were conducted at the GWTP during the third quarter of 2007:

- Annual maintenance of the SBPA dual-phase extraction pumps was conducted between July 31, 2007 and August 7, 2007. Seven of the pumps required extensive cleaning to remove product from the pump components. Two of the pumps were replaced because they could not be repaired.

- On August 15, 2007, strong thunderstorms in the area caused damage to the ACS facility and the operating systems. Several trees were knocked down. The perimeter fence surrounding the Off-Site Area was damaged. Critical electrical components including the Site's main power transformer were also damaged. As a result, power was unavailable to the Site until August 21st. During the power outage, the biological growth in the activated sludge plant was maintained using an air compressor powered by a diesel generator. After the repair of the critical electrical components, the remedial systems were substantially back to normal operation on September 4th. Additional minor repairs continued throughout September.

5.0 ISVE PROCESS MODIFICATIONS AND REPAIRS

5.1 ISVE PROCESS MODIFICATIONS

The following modifications were made to the SBPA ISVE system during the third quarter of 2007:

- Due to the malfunction of Therm Ox 1, only two sets of air injection wells ran at the ACS site throughout the third quarter 2007. Group 2 (SVE-49, SVE-51, SVE-64, SVE-71, and SVE-82) operated until September 13, 2007. The injection wells were then 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.

No modifications were made to the Off-Site ISVE system during the third quarter of 2007.

A Steam Injection Pilot Test was conducted in the Off-Site Area for the purpose of evaluating the potential to accelerate VOC removal. The Steam Injection Pilot Test began on July 10, 2007 and continued through August 8, 2007. Initial results indicate that VOC removal is enhanced by the addition of steam to the subsurface soil in the target area. The data will be further evaluated to determine if installation of a full-scale steam injection system would be viable and cost-effective. A memorandum will be prepared summarizing the results and providing MWH's recommended course of action.

5.2 ISVE REPAIRS AND MAINTENANCE

The following repairs and/or maintenance activities were performed on the ISVE systems during the third quarter of 2007:

- On July 31, 2007, the blower effluent pipe for the SBPA ISVE System failed and became disconnected from the blower system. The system was shut down immediately and the pipe was repaired on August 2nd.

- Operations of both ISVE systems were affected by the August 15th thunderstorms. Although there was no damage to the ISVE systems specifically, components of the associated thermal oxidizers were damaged and required repair or replacement.

6.0 PGCS AND BWES GAUGING ACTIVITIES

During the operational time frame of the GWTP in the third quarter of 2007, 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, and MW-56 during the third quarter of 2007. In addition, the pump in MW-10C was replaced and brought online with the Lower Aquifer Pumping System in September 2007. Extracted groundwater from MW-10C, MW-30, MW-53, and LA-14 was pumped to the GWTP for treatment.

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 July, August, and September 2007. Groundwater elevation measurements were collected throughout the Site on September 28, 2007 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 measured inside and outside the barrier wall on September 28, 2007. The groundwater elevations are plotted on Figure 6.2. Groundwater elevation measurements inside the barrier wall were lower than levels outside the barrier wall at eight of the nine locations. At these eight locations, groundwater elevation measurements inside the barrier wall ranged from 1.15 to 7.09 feet lower than levels outside the barrier wall.

At one location, P93/P94, the groundwater elevation was 0.27 feet higher inside the barrier wall. Historically, the higher groundwater elevations for this location have been located outside the barrier wall. Downtime of the GWTP due to maintenance issues has restricted the operation of the dewatering system, resulting in higher water levels. [Note: Water levels were measured again on December 13, 2007 and the P93/P94 piezometer set showed that the water level inside the barrier wall was 2.70 feet lower than outside of 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 monitor this piezometer set

for any elevation changes across the barrier wall. MWH will also 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 third quarter of 2007 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 third quarter of 2007. 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 are similar to those recorded during the second quarter of 2007.

In the Off-Site ISVE area, the target water level is 626 feet amsl. Actual water levels varied from approximately 620.5 feet amsl to 629 feet amsl. This represents a decrease in the average water levels from the second 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 79 percent of the third quarter of 2007 (based on 1,733 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, and MW-56. Beginning in September 2007, the system also drew influent from MW-10C and the Lower Aquifer Pumping System. The downtime for the GWTP was associated with repair activities required following the heavy thunderstorms on August 15, 2007.

The Off-Site Area ISVE system continued to operate as designed 49 percent of the third quarter of 2007 (based on 1,152 hours of operation out of a total of 2,328 hours). The SBPA ISVE system continued to operate as designed 45 percent of the third quarter of 2007 (based on 984 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 due to the heavy thunderstorms on August 15, 2007.

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

With the exception of the period following the August 15th thunderstorms, the GWTP continued to operate normally during the third quarter of 2007. 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 third quarter, these activities included repairing and replacing extraction pumps in the Off-Site Area, annual maintenance of the SBPA dual-phase extraction pumps, and repairs and maintenance to the GWTP in response to power outages from storms.

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.

As discussed in Section 2.3.1, the sample results for the July 2007 effluent compliance sample for the GWTP indicated that the vinyl chloride concentration (2.1 µg/L) exceeded the discharge limit of 2 µg/L (Table 2.1). The August data indicated a vinyl chloride result of 0.0092 µg/L, below the effluent limits. Based on this information, MWH believes that the vinyl chloride detection in July was anomalous. MWH will continue to monitor effluent concentrations. No effluent exceedences were reported in the August or September samples.

8.2 ISVE OPERATION

The ISVE systems continued to operate normally during the third quarter of 2007. 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 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. No significant changes were made to the operational configuration of the ISVE systems.

As discussed in Section 3.2, the VOC mass detected in the effluent from the ThermOx 2 system in August exceeded the permit equivalency limit. This was believed to be caused by a significant increase in the VOC concentrations in the influent stream into the oxidizer. At current setpoints, the oxidizer may not have been able to adequately meet the required destruction efficiency. Although analytical data from September's sampling event indicated that effluent concentrations had returned to below the limit, MWH will continue to monitor

the system. Should the data indicate that influent concentrations may remain higher than recently observed, operational settings on the oxidizer may be adjusted.

MWH conducted a Steam Injection Pilot Test in the Off-Site Area for the purpose of evaluating the potential to accelerate VOC removal. The Steam Injection Pilot Test was performed from July 10, 2007 through August 8, 2007. MWH is still evaluating the data to determine if installation of a full-scale steam injection system would be viable and cost-effective.

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. However, measurements in September 2007 showed one location (P93/P94) where the piezometer inside the barrier wall had a higher water level than its corresponding piezometer outside the barrier wall.

Recent groundwater level monitoring results indicate that levels in both the On-Site and Off-Site Areas have risen above previous minimum levels. MWH is evaluating the performance of the extraction trenches and wells to ensure correct operation and will continue to monitor groundwater levels. 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.

8.4 HEALTH AND SAFETY

No health and safety incidents were reported during the third quarter of 2007. 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 September 30, 2007 are:

- 3,781 consecutive days with no lost time due to an accident or Health and Safety incident.
- 1,473 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.

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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:
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.
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 - Third Quarter 2007
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

Event Date	Month 122 7/10/2007	Month 123 8/7/2007	Month 124 9/20/2007	Effluent Limits	Lab Reporting Limits
pH	7.65 H/	7.26 H/J	7.31 H/	6-9	none
TSS	1.9 /	NS	NS	30	1.0
BOD	2.0 U/	NS	NS	30	2
Arsenic	3.1 J/	NS	NS	50	10
Beryllium	1.0 U/	NS	NS	NE	1.0
Cadmium	2.0 U/	NS	NS	4.1	2.0
Manganese	1.3 JB/UB	NS	NS	NE	2.0
Mercury[1]	0.065 J/	NS	NS	0.02 (w/DL = 0.64)	0.2
Selenium	6.5 J/UB	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	2.28 J/J	5.0 U/UJ	2.45 J/J	6,800	5.0
2-Butanone	2.0 U/UJ	2.0 U/UJ	2.0 U/UJ	210	2.0
Chloromethane	1.18 JB/2.0 UB	0.89 JB/2.0 UB	0.5 J/	NE	2.0
1,4-Dichlorobenzene	1.0 U/	1.0 U/	1.0 U/	NE	1.0
1,1-Dichloroethane	1.2 /	0.91 J/	1.0 U/	NE	1.0
cis-1,2-Dichloroethene	1.0 U/	1.2	1.0 U/	70	1.0
Ethylbenzene	1.0 U/	1.0 U/	1.0 U/	34	1.0
Methylene chloride	2.0 U/UJ	2.0 U/	2.0 U/	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	**2.1 /**	0.92 J/	2.0 U/	2	2.0
4-Methyl-2-pentanone	1.0 U/	1.0 U/	1.0 U/	15	1.0
bis (2-Chloroethyl) ether	ND	NS	NS	9.6	5.1
bis(2-Ethylhexyl) - phthalate	4.73 JB/5.1 UBJ	NS	NS	6	5.1
4 - Methylphenol	ND	NS	NS	34	5.1
Isophorone	ND	NS	NS	50	5.1
Pentachlorophenol	ND	NS	NS	1	26
PCB/Aroclor-1016[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.20
PCB/Aroclor-1221[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.50
PCB/Aroclor-1232[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.50
PCB/Aroclor-1242[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.098
PCB/Aroclor-1248[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.14
PCB/Aroclor-1254[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.17
PCB/Aroclor-1260[1]	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.27

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
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) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	16,000		25,000		4.90		99.97%	99.98%	99.97%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	46		ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	63		69		ND	U	100.00%	100.00%	100.00%
1,1-Dichloroethane	ppbv	3,200		3,300		1.4		99.96%	99.96%	99.96%
1,1-Dichloroethene	ppbv	130		110		ND	U	100.00%	100.00%	100.00%
1,2-Dichloroethane	ppbv	310		330		0.23	J/J	NC	NC	NC
1,2-Dichloropropane	ppbv	390		370		ND	U	100.00%	100.00%	100.00%
2-Butanone	ppbv	950		1,100		8.8		99.07%	99.20%	99.14%
2-Hexanone	ppbv	1,000		850		1.2	J/J	NC	NC	NC
4-Methyl-2-Pentanone	ppbv	1,100		1,800		2.6		99.76%	99.86%	99.81%
Acetone	ppbv	910		810		29	J/J	NC	NC	NC
Benzene	ppbv	4,200		4,100		8.4		99.80%	99.80%	99.80%
Bromodichloromethane	ppbv	67		79		ND	U	100.00%	100.00%	100.00%
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	1,000		370		ND	U	100.00%	100.00%	100.00%
Carbon tetrachloride	ppbv	ND	U/R	ND	U/R	ND	U	NC	NC	NC
Chlorobenzene	ppbv	ND	U	13	J/J	0.51		NC	NC	NC
Chloroethane	ppbv	260		210		1.3		99.38%	99.50%	99.44%
Chloroform	ppbv	5,300		8,300		1.3		99.98%	99.98%	99.98%
Chloromethane	ppbv	20	J/J	19	J/J	0.52	J/J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	17,000		28,000		16		99.91%	99.94%	99.92%
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	7,100		10,000		15		99.79%	99.85%	99.82%
m,p-Xylene	ppbv	12,000		19,000		53		99.56%	99.72%	99.64%
Methylene chloride	ppbv	8,800		4,900		3.9	b/b	100.00%	100.00%	100.00%
o-Xylene	ppbv	11,000		16,000		39		99.65%	99.76%	99.70%
Styrene	ppbv	160		170		0.5		99.69%	99.71%	99.70%
Tetrachloroethene	ppbv	27,000		31,000		15		99.94%	99.95%	99.95%
Toluene	ppbv	50,000		50,000		91		99.82%	99.82%	99.82%
trans-1,2-Dichloroethene	ppbv	170		150		ND	U	100.00%	100.00%	100.00%
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	11,000		17,000		11		99.90%	99.94%	99.92%
Vinyl chloride	ppbv	1,000		910		4.2		99.54%	99.58%	99.56%
Total	**ppbv**	**180,130**		**224,006**		**308.8**		**99.83%**	**99.86%**	**99.85%**
Total	**lb/hr**	**3.807**		**4.816**		**0.006**		**99.84%**	**99.88%**	**99.86%**

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit
R - Result rejected
_/ - 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)
Thermox-1	07/11/07	107	1,194
Thermox-2	07/11/07	83	1,631

Temperatures and flow rates reported correspond to instantaneous readings.

CRS/CDC/JEF/CAD/app
J:\405\0577 ACS\0201 Engr\05770201a102.xls\Table 3.1

Table 3.2
Thermal Oxidizer 1 Results for Method TO-14 (VOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	6,300		6,400		32.00		99.49%	99.50%	99.50%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	700		710		3.6		99.49%	99.49%	99.49%
1,1-Dichloroethene	ppbv	120		100		ND	U	100.00%	100.00%	100.00%
1,2-Dichloroethane	ppbv	79		81		ND	U	100.00%	100.00%	100.00%
1,2-Dichloropropane	ppbv	84		87		ND	U	100.00%	100.00%	100.00%
2-Butanone (Methyl Ethyl Ketone)	ppbv	960		490		29		94.08%	96.98%	95.53%
2-Hexanone	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	280		220		ND	U	100.00%	100.00%	100.00%
Acetone	ppbv	680		290		44		84.83%	93.53%	89.18%
Benzene	ppbv	1,000		1,100		12		98.80%	98.91%	98.85%
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	ND	U	ND	U	ND	U	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	ND	U	ND	U	ND	U	NC	NC	NC
Chloroform	ppbv	1,500		1,500		13		99.13%	99.13%	99.13%
Chloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	5,200		5,300		50		99.04%	99.06%	99.05%
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	2,900		3,300		190		93.45%	94.24%	93.85%
m,p-Xylene	ppbv	11,000		13,000		870		92.09%	93.31%	92.70%
Methylene Chloride	ppbv	1,300		1,400		9.2		99.29%	99.34%	99.32%
o-Xylene	ppbv	5,200		6,000		470		90.96%	92.17%	91.56%
Styrene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Tetrachloroethene	ppbv	8,600		9,300		290		96.63%	96.88%	96.75%
Toluene	ppbv	11,000		12,000		380		96.55%	96.83%	96.69%
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	3,700		3,700		63		98.30%	98.30%	98.30%
Vinyl Chloride	ppbv	350		340		ND	U	NC	NC	NC
Total	**ppbv**	**60,953**		**65,318**		**2,455.8**		**95.97%**	**96.24%**	**96.11%**
Total	**lb/hr**	**1.307**		**1.406**		**0.051**		**96.10%**	**96.37%**	**96.24%**

Notes:

NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:

U - Below reported quantitation limit
_/ - 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	08/10/07	112	1,194
Off-site	08/10/07	98	1,660

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.3
Thermal Oxidizer 1 Results for Method TO-14 (VOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	13,000		14,000		0.63	J	NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	1,800		2,100		ND	U	100.00%	100.00%	100.00%
1,1-Dichloroethene	ppbv	220		280		0.68		99.69%	99.76%	99.72%
1,2-Dichloroethane	ppbv	350		370		ND	U	100.00%	100.00%	100.00%
1,2-Dichloropropane	ppbv	280		280		ND	U	100.00%	100.00%	100.00%
2-Butanone (Methyl Ethyl Ketone)	ppbv	420	J	490	J	6.8		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	0.32	J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	840		720		1.3	J	NC	NC	NC
Acetone	ppbv	1,400		1,400		22		98.43%	98.43%	98.43%
Benzene	ppbv	3,200		3,300		1.4		99.96%	99.96%	99.96%
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	49	J	44	J	1.2	J	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	340		380		ND	U	100.00%	100.00%	100.00%
Chloroform	ppbv	4,000		4,300		ND	U	100.00%	100.00%	100.00%
Chloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	12,000		14,000		16		99.87%	99.89%	99.88%
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	8,900		8,800		2.8		99.97%	99.97%	99.97%
m,p-Xylene	ppbv	29,000		29,000		12		99.96%	99.96%	99.96%
Methylene Chloride	ppbv	6,400		6,700		23		99.64%	99.66%	99.65%
o-Xylene	ppbv	12,000		12,000		3.6		99.97%	99.97%	99.97%
Styrene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Tetrachloroethene	ppbv	22,000		22,000		5.4		99.98%	99.98%	99.98%
Toluene	ppbv	42,000		42,000		22		99.95%	99.95%	99.95%
trans-1,2-Dichloroethene	ppbv	ND	U	120	J	ND	U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	8,800		8,900		3.1		99.96%	99.97%	99.96%
Vinyl Chloride	ppbv	1,900		2,100		ND	U	NC	NC	NC
Total	**ppbv**	**168,899**		**173,284**		**122.2**		**99.93%**	**99.93%**	**99.93%**
Total	**lb/hr**	**2.452**		**2.512**		**0.001**		**99.96%**	**99.96%**	**99.96%**

Notes:

NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:

U - Below reported quantitation limit
J - Result 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	09/20/07	112	827
Off-site	08/10/07	98	1,600

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.4
Thermal Oxidizer 2 Results for Method TO-15 (VOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	16,000		7,800		520		93.33%	96.75%	95.04%
1,1,2,2-Tetrachloroethane	ppbv	14	J/J	19	J/J	0.95	J/J	NC	NC	NC
1,1,2-Trichloroethane	ppbv	160		160		5.8		96.38%	96.38%	96.38%
1,1-Dichloroethane	ppbv	3,200		2,300		90		96.09%	97.19%	96.64%
1,1-Dichloroethene	ppbv	41		40		160		NC	NC	NC
1,2-Dichloroethane	ppbv	510		510		24		95.29%	95.29%	95.29%
1,2-Dichloropropane	ppbv	160		150		6.5		95.67%	95.94%	95.80%
2-Butanone	ppbv	8,600		4,400	J/J	200	J/J	NC	NC	NC
2-Hexanone	ppbv	860		820		13		98.41%	98.49%	98.45%
4-Methyl-2-Pentanone	ppbv	5,100		4,100		93		97.73%	98.18%	97.95%
Acetone	ppbv	11,000		4,600	J/J	410		NC	NC	NC
Benzene	ppbv	9,900		5,700		410		92.81%	95.86%	94.33%
Bromodichloromethane	ppbv	64		62		4		93.87%	94.06%	93.97%
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	10	J/J	ND	U	NC	NC	NC
Carbon disulfide	ppbv	380		310		0.6	J/J	NC	NC	NC
Carbon tetrachloride	ppbv	ND	U/R	ND	U/R	1	J/J	NC	NC	NC
Chlorobenzene	ppbv	ND	U	11	J/J	7		NC	NC	NC
Chloroethane	ppbv	95		79		2.4	J/J	NC	NC	NC
Chloroform	ppbv	1,600		1,300		80		93.85%	95.00%	94.42%
Chloromethane	ppbv	23	J/J	29	J/J	7.8	J/J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	1,900		1,400		96		93.14%	94.95%	94.05%
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	8,000		4,700		280		94.04%	96.50%	95.27%
m,p-Xylene	ppbv	15,000		9,700		520		94.64%	96.53%	95.59%
Methylene chloride	ppbv	17,000		5,900		390		93.39%	97.71%	95.55%
o-Xylene	ppbv	12,000		7,100		450		93.66%	96.25%	94.96%
Styrene	ppbv	180		250		70	J/J	NC	NC	NC
Tetrachloroethene	ppbv	14,000		7,700		720		90.65%	94.86%	92.75%
Toluene	ppbv	64,000		38,000		1700		95.53%	97.34%	96.44%
trans-1,2-Dichloroethene	ppbv	29	J/J	28	J/J	6		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	15,000		7,000		540		92.29%	96.40%	94.34%
Vinyl chloride	ppbv	130		140		25		80.77%	82.14%	81.46%
Total	**ppbv**	**204,946**		**114,318**		**6,833.3**		**94.02%**	**96.67%**	**95.34%**
Total	**lb/hr**	**5.411**		**3.028**		**0.186**		**93.86%**	**96.56%**	**95.21%**

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
R - Result rejected
_/ - 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)
Thermox-1	07/11/07	107	1,194
Thermox-2	07/11/07	83	1,631

Temperatures and flow rates reported correspond to instantaneous readings.

CRS/CDC/JEF/CAD/app
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Table 3.5
Thermal Oxidizer 2 Results for Method TO-14 (VOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	51,000		55,000		1,600		96.86%	97.09%	96.98%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	7,800		8,200		290		96.28%	96.46%	96.37%
1,1-Dichloroethene	ppbv	1,400		1,300		490		62.31%	65.00%	63.65%
1,2-Dichloroethane	ppbv	1,100		1,000		ND	U	100.00%	100.00%	100.00%
1,2-Dichloropropane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	90,000		98,000		3,200		96.44%	96.73%	96.59%
2-Hexanone	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	37,000		36,000		1,100		96.94%	97.03%	96.99%
Acetone	ppbv	52,000		67,000		2,000		96.15%	97.01%	96.58%
Benzene	ppbv	16,000		16,000		960		94.00%	94.00%	94.00%
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	ND	U	ND	U	ND	U	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	ND	U	ND	U	ND	U	NC	NC	NC
Chloroform	ppbv	3,400		3,600		140		95.88%	96.11%	96.00%
Chloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	2,600		2,700		160		93.85%	94.07%	93.96%
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	28,000		24,000		1,100		95.42%	96.07%	95.74%
m,p-Xylene	ppbv	97,000		79,000		3,800		95.19%	96.08%	95.64%
Methylene Chloride	ppbv	59,000		62,000		2,600		95.59%	95.81%	95.70%
o-Xylene	ppbv	33,000		26,000		1,300		95.00%	96.06%	95.53%
Styrene	ppbv	1,500		ND	U	150		NC	NC	NC
Tetrachloroethene	ppbv	30,000		29,000		1,400		95.17%	95.33%	95.25%
Toluene	ppbv	310,000		300,000		13,000		95.67%	95.81%	95.74%
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	32,000		32,000		1,400		95.63%	95.63%	95.63%
Vinyl Chloride	ppbv	ND	U	ND	U	84		NC	NC	NC
Total	**ppbv**	**852,800**		**840,800**		**34,774.0**		**95.86%**	**95.92%**	**95.89%**
Total	**lb/hr**	**21.71**		**21.15**		**0.884**		**95.82%**	**95.93%**	**95.87%**

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
U - Below reported quantitation limit
_/ - 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	08/10/07	112	1,194
Off-site	08/10/07	98	1,660

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.6
Thermal Oxidizer 2 Results for Method TO-14 (VOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,1,1-Trichloroethane	ppbv	38,000		39,000		1,300		96.58%	96.67%	96.62%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	9,700		9,700		320		96.70%	96.70%	96.70%
1,1-Dichloroethene	ppbv	620		560		360		35.71%	41.94%	38.82%
1,2-Dichloroethane	ppbv	810		780		37		95.26%	95.43%	95.34%
1,2-Dichloropropane	ppbv	ND	U	180	J	ND	U	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	54,000		55,000		1,400		97.41%	97.45%	97.43%
2-Hexanone	ppbv	ND	U	230	J	14	J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	12,000		11,000		410		96.27%	96.58%	96.43%
Acetone	ppbv	44,000		43,000		1,100		97.44%	97.50%	97.47%
Benzene	ppbv	17,000		17,000		1,000		94.12%	94.12%	94.12%
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	310	J	400	J	20	J	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	310	J	270		ND	U	NC	NC	NC
Chloroform	ppbv	2,400		2,400		100		95.83%	95.83%	95.83%
Chloromethane	ppbv	ND	U	240	J/J	160	/J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	2,500		2,500		160		93.60%	93.60%	93.60%
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	3,900		3,900		470		87.95%	87.95%	87.95%
m,p-Xylene	ppbv	12,000		12,000		1,400		88.33%	88.33%	88.33%
Methylene Chloride	ppbv	72,000		70,000		2,600		96.29%	96.39%	96.34%
o-Xylene	ppbv	3,400		3,200		440		86.25%	87.06%	86.65%
Styrene	ppbv	ND	U	ND	U	96		NC	NC	NC
Tetrachloroethene	ppbv	7,600		7,800		890		88.29%	88.59%	88.44%
Toluene	ppbv	97,000		96,000		7,000		92.71%	92.78%	92.75%
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	16,000		16,000		950		94.06%	94.06%	94.06%
Vinyl Chloride	ppbv	830		890		100		87.95%	88.76%	88.36%
Total	**ppbv**	**394,380**		**392,050**		**20,327.0**		**94.82%**	**94.85%**	**94.83%**
Total	**lb/hr**	**9.51**		**9.48**		**0.516**		**94.55%**	**94.58%**	**94.56%**

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
U - Below reported quantitation limit
J - Result 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	09/20/07	112	827
Off-site	08/10/07	98	1,600

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.7
SBPA and Off-Site ISVE System Results
for Method TO-15 (VOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	12,000		12,000	
1,1,2,2-Tetrachloroethane	ppbv	26	J/J	ND	U
1,1,2-Trichloroethane	ppbv	32	J/J	81	
1,1-Dichloroethane	ppbv	2,200		2,400	
1,1-Dichloroethene	ppbv	120		50	J/J
1,2-Dichloroethane	ppbv	220		520	
1,2-Dichloropropane	ppbv	200		130	
2-Butanone	ppbv	730		6,600	
2-Hexanone	ppbv	460		ND	U
4-Methyl-2-Pentanone	ppbv	880		3,200	
Acetone	ppbv	770		10,000	
Benzene	ppbv	2,300		5,100	
Bromodichloromethane	ppbv	74	J/J	110	
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon disulfide	ppbv	470		260	
Carbon tetrachloride	ppbv	ND	U/R	ND	U/R
Chlorobenzene	ppbv	250		240	
Chloroethane	ppbv	230		75	
Chloroform	ppbv	3,700		1,300	
Chloromethane	ppbv	ND	U	ND	U
cis-1,2-Dichloroethene	ppbv	11,000		1,200	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl benzene	ppbv	4,700		6,500	
m,p-Xylene	ppbv	8,200		12,000	
Methylene chloride	ppbv	7,000		19,000	
o-Xylene	ppbv	7,500		9,200	
Styrene	ppbv	88		210	
Tetrachloroethene	ppbv	20,000		9,800	
Toluene	ppbv	29,000		52,000	
trans-1,2-Dichloroethene	ppbv	86		ND	U
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	7,600		9,800	
Vinyl chloride	ppbv	770		140	
Total	**ppbv**	**120,606**		**161,916**	
Total	**lb/hr**	**2.589**		**4.212**	

Notes:
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
R - Result rejected
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
Off-site	07/11/07	107	1,194
Onsite	07/11/07	83	1,631

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.8
SBPA and Off-Site ISVE System Results
for Method TO-14 (VOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	6,700		60,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	720		9,100	
1,1-Dichloroethene	ppbv	140		1,400	
1,2-Dichloroethane	ppbv	82		1,200	
1,2-Dichloropropane	ppbv	82		ND	U
2-Butanone (Methyl Ethyl Ketone)	ppbv	470		110,000	
2-Hexanone	ppbv	ND	U	ND	U
4-Methyl-2-pentanone	ppbv	210		44,000	
Acetone	ppbv	250		73,000	
Benzene	ppbv	1,000		18,000	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	ND	U	ND	U
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	ND	U	ND	U
Chloroethane	ppbv	ND	U	ND	U
Chloroform	ppbv	1,600		4,000	
Chloromethane	ppbv	ND	U	ND	U
cis-1,2-Dichloroethene	ppbv	5,200		3,000	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	2,900		34,000	
m,p-Xylene	ppbv	11,000		120,000	
Methylene Chloride	ppbv	1,400		69,000	
o-Xylene	ppbv	5,000		39,000	
Styrene	ppbv	ND	U	ND	U
Tetrachloroethene	ppbv	8,900		34,000	
Toluene	ppbv	11,000		350,000	E/J
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	3,700		37,000	
Vinyl Chloride	ppbv	370		ND	U
Total	**ppbv**	**60,724**		**1,006,700**	
Total	**lb/hr**	**1.315**		**25.47**	

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
E - Value above quanitation range
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
On-site	08/10/07	112	1,194
Off-site	08/10/07	98	1,660

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.9
SBPA and Off-Site ISVE System Results
for Method TO-14 (VOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,1,1-Trichloroethane	ppbv	13,000		43,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	2,000		11,000	
1,1-Dichloroethene	ppbv	240		550	
1,2-Dichloroethane	ppbv	360		980	
1,2-Dichloropropane	ppbv	290		ND	U
2-Butanone (Methyl Ethyl Ketone)	ppbv	540		60,000	
2-Hexanone	ppbv	ND	U	ND	U
4-Methyl-2-pentanone	ppbv	920		12,000	
Acetone	ppbv	1,500		49,000	
Benzene	ppbv	3,400		19,000	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	58	J	450	J
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	ND	U	ND	U
Chloroethane	ppbv	360		ND	U
Chloroform	ppbv	4,200		2,600	
Chloromethane	ppbv	ND	U	320	J/J
cis-1,2-Dichloroethene	ppbv	14,000		2,600	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	8,900		4,900	
m,p-Xylene	ppbv	29,000		15,000	
Methylene Chloride	ppbv	6,200		77,000	
o-Xylene	ppbv	12,000		4,400	
Styrene	ppbv	ND	U	ND	U
Tetrachloroethene	ppbv	22,000		8,700	
Toluene	ppbv	42,000		110,000	
trans-1,2-Dichloroethene	ppbv	110	J	ND	U
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	9,100		19,000	
Vinyl Chloride	ppbv	2,100		1,000	
Total	**ppbv**	**172,278**		**441,500**	
Total	**lb/hr**	**2.495**		**10.686**	

Notes:
NC - Not calculated
ND - Non-detect
ppbv - Parts per billion volume
lb/hr - Pounds per hour
scfm - Standard cubic feet per minute

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

System	Date	Temp (F)	Flow (scfm)
On-site	09/20/07	112	827
Off-site	08/10/07	98	1,600

Temperatures and flow rates reported correspond to instantaneous readings.

Table 3.10
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	14.0		17.0		ND	U	100.00%	100.00%	100.00%
1,2-Dichlorobenzene	µg	21.0		23.0		ND	U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	µg	2.3	J/J	2.5	J/J	ND		NC	NC	NC
1,4-Dichlorobenzene	µg	5.3	J/J	5.8	J/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	5.4	J/J	6.8	J/J	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	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	0.6	Jb/Jb	0.5	Jb/Jb	0.5	Jb/Jb	NC	NC	NC
Benzo[b]fluoranthene	µg	0.7	Jb/Jb	0.7	Jb/Jb	0.8	Jb/Jb	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-ethylhexyl)phthalate	µg	110.0	b/b	93.0	b/b	16.0	b/b	NC	NC	NC
Butyl benzyl phthalate	µg	1.1	Jb/Jb	ND	U	2.4	Jb/Jb	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	2.2	J/J	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	3.4	Jb/Jb	2.9	Jb/Jb	1.5	Jb/Jb	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	11		13		ND	U	100.00%	100.00%	100.00%
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	ND	U	ND	U	NC	NC	NC
Isophorone	µg	7.4	J/J	8.1	J/J	ND	U	NC	NC	NC

Table 3.10
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	13		16		0.2	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	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	3.5	J/J	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**195.16**		**191.52**		**24.86**		**87.02%**	**87.26%**	**87.14%**

Notes:

µg - Microgram
NC - Not calculated
ND - Non-detect
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.

Qualifiers:

J - Result is estimated
U - Below reported quantitation limit
b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit
Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Table 3.11
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	2.9	J/J	1.9	J/J	ND	U/UJ	NC	NC	NC
1,2-Dichlorobenzene	µg	7.3	J/J	6	J/J	ND	U/UJ	NC	NC	NC
1,3-Dichlorobenzene	µg	0.83	J/J	ND	U/UJ	ND	U/UJ	NC	NC	NC
1,4-Dichlorobenzene	µg	2.5	J/J	1.8	J/J	ND	U/UJ	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2-Chloronaphthalene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2-Chlorophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2-Methylnaphthalene	µg	2	J/J	1.5	J/J	ND	U/UJ	NC	NC	NC
2-Methylphenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2-Nitroaniline	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
2-Nitrophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
3,3'-Dichlorobenzidine	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
3/4-Methylphenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
3-Nitroaniline	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4-Chloroaniline	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
4-Nitroaniline	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	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/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	62	b/J	31	b/J	8.7	Jb/J	NC	NC	NC
Butyl benzyl phthalate	µg	1.1	J/J	1.4	J/J	1.8	J/J	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/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Diethyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Dimethyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Di-n-octyl phthalate	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	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/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Hexachlorobutadiene	µg	3.7	J/J	2.8	J/J	ND	U/UJ	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Hexachloroethane	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	2.3	J/J	1.8	J/J	ND	U/UJ	NC	NC	NC

Table 3.11
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	3.4		2.7		0.19	J	NC	NC	NC
Nitrobenzene	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Pentachlorophenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U/UJ	ND	U/UJ	ND	U/UJ	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**88.03**		**50.90**		**10.69**		**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.

b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit

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

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.12
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		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/J	2.3	J/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/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	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	0.97	J/J	ND	U	NC	NC	NC
Acenaphthylene	µg	0.66	J/J	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-ethylhexyl)phthalate	µg	86	b/J	39	b	3.3	Jb	NC	NC	NC
Butyl benzyl phthalate	µg	1.2	J/J	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	0.3	J/J	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
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

Table 3.12
Thermal Oxidizer 1 Results for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		Therm-Ox 1						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	0.86	J/J	1.8		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/R	ND	U/R	ND	U/R	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**90.33**		**44.07**		**3.30**		**NC**	**NC**	**NC**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - Below reported quantitation limit

R - Result rejected

b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit

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

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.13
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	0.93	J/J	1.1	J/J	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	25		26		1.3	J/J	NC	NC	NC
1,3-Dichlorobenzene	µg	0.83	J/J	0.83	J/J	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	2.7	J/J	2.8	J/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	2.4	J/J	2.7	J/J	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	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	0.5	Jb/Jb	0.56	Jb/Jb	0.4	Jb/Jb	NC	NC	NC
Benzo[b]fluoranthene	µg	0.68	Jb/Jb	0.69	Jb/Jb	0.56	Jb/Jb	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-ethylhexyl)phthalate	µg	300		170	b/b	23	b/b	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	ND	U	1.5	Jb/Jb	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	8.4	Jb/Jb	5.3	Jb/Jb	1.6	Jb/Jb	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	2.6	J/J	3	J/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	ND	U	ND	U	NC	NC	NC
Isophorone	µg	12		14		ND	U	100.00%	100.00%	100.00%

Table 3.13
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	14		16		1.8		87.14%	88.75%	87.95%
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	**370.04**		**242.98**		**30.16**		**87.59%**	**91.85%**	**89.72%**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

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.

Qualifiers:

J - Result is estimated

U - Below reported quantitation limit

b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit

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

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.14
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
1,2,4-Trichlorobenzene	µg	1.9	J	2.6	J/J	ND	U	NC	NC	NC
1,2-Dichlorobenzene	µg	21		25	U/UJ	1.7	J	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	2.7	J	2.9	J/J	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
2,4-Dichlorophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
2,4-Dimethylphenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
2,4-Dinitrophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
2,4-Dinitrotoluene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
2-Chloronaphthalene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
2-Chlorophenol	µg	ND	U	ND	U/UJ	1	J/J	NC	NC	NC
2-Methylnaphthalene	µg	4.4	J	5.7	J/J	1.1	J/J	NC	NC	NC
2-Methylphenol	µg	1.6	J	1.7	J/J	ND	U/R	NC	NC	NC
2-Nitroaniline	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
2-Nitrophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
3,3·-Dichlorobenzidine	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
3/4-Methylphenol	µg	1.6	J	2	J/J	ND	U/R	NC	NC	NC
3-Nitroaniline	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
4-Bromophenyl phenyl ether	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
4-Chloroaniline	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
4-Chlorophenyl phenyl ether	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
4-Nitroaniline	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
4-Nitrophenol	µg	ND	U	ND	U/UJ	ND	U/R	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/UJ	ND	U	NC	NC	NC
Bis(2-chloroethyl)ether	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Bis(2-ethylhexyl)phthalate	µg	180	U	120	b/J	15	b/J	NC	NC	NC
Butyl benzyl phthalate	µg	ND	U	1.5	J/J	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/UJ	ND	U	NC	NC	NC
Diethyl phthalate	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Dimethyl phthalate	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Di-n-butyl phthalate	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Di-n-octyl phthalate	µg	3	J	1.5	J/J	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/UJ	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	3.9	J	4.4	J/J	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	29		36	/J	1.8	J/J	NC	NC	NC

Table 3.14
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	29		40		4.4	/J	84.83%	89.00%	86.91%
Nitrobenzene	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
N-Nitrosodi-n-propylamine	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U/UJ	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U/UJ	ND	U/R	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**278.10**		**243.30**		**25.00**		**89.72%**	**91.01%**	**90.37%**

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.

b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit

R - Result rejected

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.15
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		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	15	/J	5.5	J/J	ND	U	NC	NC	NC
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	µg	1.9	J/J	0.94	J/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	1.6	J/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	ND	U	ND	U	NC	NC	NC
Acenaphthylene	µg	0.44	J/J	0.35	J/J	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-ethylhexyl)phthalate	µg	19	b/J	150	b/J	16	b/J	NC	NC	NC
Butyl benzyl phthalate	µg	1.1	J/J	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	2	J/J	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	1.8	J/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	ND	U	ND	U	NC	NC	NC
Isophorone	µg	10		4.2	J/J	ND	U	NC	NC	NC

Table 3.15
Thermal Oxidizer 2 Results for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07								
		Therm-Ox 2						Destruction Efficiency		
Compounds	**Units**	**Influent**		**Influent Dup**		**Effluent**		**Low**	**High**	**Average**
Naphthalene	µg	14	/J	5.7	/J	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/R	ND	U/R	ND	U/R	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U/R	ND	U/R	ND	U/R	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	**64.84**		**168.69**		**16.00**		**75.32%**	**90.52%**	**82.92%**

Notes:

µg - Microgram

NC - Not calculated

ND - Non-detect

Qualifiers:

J - Result is estimated

U - Below reported quantitation limit

R - Result rejected

b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit

_/ - Laboratory data qualifier

/_ - Data validation qualifier

Table 3.16
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	13		1.3	J/J
1,2-Dichlorobenzene	µg	18		26	
1,3-Dichlorobenzene	µg	2	J/J	0.85	J/J
1,4-Dichlorobenzene	µg	5.1	J/J	3	J/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	5.2	J/J	4	J/J
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	1.9	J/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	0.47	Jb/Jb	0.48	Jb/Jb
Benzo[b]fluoranthene	µg	0.7	Jb/Jb	0.65	Jb/Jb
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-ethylhexyl)phthalate	µg	7	Jb/Jb	6.4	Jb/Jb
Butyl benzyl phthalate	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	1.4	Jb/Jb	1.3	Jb/Jb
Fluoranthene	µg	ND	U	ND	U
Fluorene	µg	ND	U	ND	U
Hexachlorobenzene	µg	ND	U	ND	U
Hexachlorobutadiene	µg	10		3.2	J/J
Hexachlorocyclopentadiene	µg	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U
Isophorone	µg	6.8	J/J	19	

Table 3.16
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - July 2007
American Chemical Service
Griffith, Indiana

		Sampled 7/11/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Naphthalene	µg	12		23	
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	**81.67**		**91.08**	

Notes:
µg - Microgram
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
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Table 3.17
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	2.9	J/J	6.4	J
1,2-Dichlorobenzene	µg	8	J/J	34	U
1,3-Dichlorobenzene	µg	1	J/J	ND	U
1,4-Dichlorobenzene	µg	2.8	J/J	4.2	J
2,4,5-Trichlorophenol	µg	ND	U/UJ	ND	U
2,4,6-Trichlorophenol	µg	ND	U/UJ	ND	U
2,4-Dichlorophenol	µg	ND	U/UJ	ND	U
2,4-Dimethylphenol	µg	ND	U/UJ	ND	U
2,4-Dinitrophenol	µg	ND	U/UJ	ND	U
2,4-Dinitrotoluene	µg	ND	U/UJ	ND	U
2,6-Dinitrotoluene	µg	ND	U/UJ	ND	U
2-Chloronaphthalene	µg	ND	U/UJ	ND	U
2-Chlorophenol	µg	ND	U/UJ	ND	U
2-Methylnaphthalene	µg	1.7	J/J	12	U
2-Methylphenol	µg	ND	U/UJ	3.4	J
2-Nitroaniline	µg	ND	U/UJ	ND	U
2-Nitrophenol	µg	ND	U/UJ	ND	U
3,3·-Dichlorobenzidine	µg	ND	U/UJ	ND	U
3/4-Methylphenol	µg	ND	U/UJ	4.2	J
3-Nitroaniline	µg	ND	U/UJ	ND	U
4,6-Dinitro-2-methylphenol	µg	ND	U/UJ	ND	U
4-Bromophenyl phenyl ether	µg	ND	U/UJ	ND	U
4-Chloro-3-methylphenol	µg	ND	U/UJ	ND	U
4-Chloroaniline	µg	ND	U/UJ	ND	U
4-Chlorophenyl phenyl ether	µg	ND	U/UJ	ND	U
4-Nitroaniline	µg	ND	U/UJ	ND	U
4-Nitrophenol	µg	ND	U/UJ	ND	U
Acenaphthene	µg	0.21	J	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/UJ	ND	U
Bis(2-chloroethyl)ether	µg	ND	U/UJ	ND	U
Bis(2-ethylhexyl)phthalate	µg	5.3	Jb/J	16	b/J
Butyl benzyl phthalate	µg	ND	U/UJ	1.4	J
Chrysene	µg	ND	U	ND	U
Dibenz[a,h]anthracene	µg	ND	U	ND	U
Dibenzofuran	µg	ND	U/UJ	ND	U
Diethyl phthalate	µg	ND	U/UJ	ND	U
Dimethyl phthalate	µg	ND	U/UJ	ND	U
Di-n-butyl phthalate	µg	ND	U/UJ	2.9	J
Di-n-octyl phthalate	µg	ND	U/UJ	ND	U
Fluoranthene	µg	ND	U	ND	U
Fluorene	µg	ND	U	ND	U
Hexachlorobenzene	µg	ND	U/UJ	ND	U
Hexachlorobutadiene	µg	4	J/J	11	
Hexachlorocyclopentadiene	µg	ND	U/UJ	ND	U
Hexachloroethane	µg	ND	U/UJ	ND	U
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U
Isophorone	µg	2.8	J/J	69	

Table 3.17
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - August 2007
American Chemical Service
Griffith, Indiana

		Sampled 8/10/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Naphthalene	µg	3.2		100	U
Nitrobenzene	µg	ND	U/UJ	ND	U
N-Nitrosodi-n-propylamine	µg	ND	U/UJ	ND	U
N-Nitrosodiphenylamine	µg	ND	U/UJ	ND	U
Pentachlorophenol	µg	ND	U/UJ	ND	U
Phenanthrene	µg	ND	U	ND	U
Phenol	µg	ND	U/UJ	ND	U
Pyrene	µg	ND	U	ND	U
Total	µg	**31.91**		**264.50**	

Notes:
µg - Microgram
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
UJ - Indicates the analyte or compound was analyzed for but not detected. The sample reporting limit is an estimated value.
b - Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine Reporting Limit
Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Table 3.18
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
1,2,4-Trichlorobenzene	µg	ND	U	1.9	J/J
1,2-Dichlorobenzene	µg	16	/J	19	/J
1,3-Dichlorobenzene	µg	1.2	J/J	ND	U
1,4-Dichlorobenzene	µg	3.4	J/J	2.4	J/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	3.5	J/J	5.2	J/J
2-Methylphenol	µg	ND	U/R	1.1	J/J
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	1.1	J/J
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	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	6.5	J/J	ND	U
Bis(2-ethylhexyl)phthalate	µg	3.9	Jb/J	5.3	Jb/J
Butyl benzyl phthalate	µg	1	J/J	1.4	J/J
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	0.68	J/J	0.51	J
Hexachlorobenzene	µg	ND	U	ND	U
Hexachlorobutadiene	µg	4.4	J/J	2.7	J/J
Hexachlorocyclopentadiene	µg	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U
Indeno[1,2,3cd]pyrene	µg	ND	U	ND	U
Isophorone	µg	3.5	J/J	22	/J

Table 3.18
SBPA and Off-Site ISVE System Results
for Method TO-13 (SVOCs) - September 2007
American Chemical Service
Griffith, Indiana

		Sampled 9/26/07			
Compounds	**Units**	**SBPA ISVE**		**Off-Site ISVE**	
Naphthalene	µg	11	/J	38	/J
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	ND	U
Phenol	µg	ND	U/R	ND	U/R
Pyrene	µg	ND	U	ND	U
Total	µg	**55.08**		**100.61**	

Notes:
µg - Microgram
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
U - Below reported quantitation limit
R - Result rejected
Jb - Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-01	7/27/2007	NM	NM	NM	
	8/1/2007	31	60.0	125	
	9/13/2007	16	21.5	216	
SVE-02	7/27/2007	NM	NM	NM	
	8/1/2007	8	58.0	72	
	9/13/2007	5	22.0	250	
SVE-03	7/27/2007	NM	NM	NM	
	8/1/2007	Water	62.0	63	
	9/13/2007	9	21.0	248	
SVE-04	7/27/2007	NM	NM	NM	
	8/1/2007	8	60.0	65	
	9/13/2007	8	22.0	195	
SVE-05	7/27/2007	NM	NM	NM	
	8/1/2007	Water	62.0	92	
	9/13/2007	6	22.0	346	
SVE-06	7/27/2007	NM	NM	NM	
	8/1/2007	Water	59.0	69	
	9/13/2007	5	21.0	240	
SVE-07	7/27/2007	NM	NM	NM	
	8/1/2007	Water	52.0	67	
	9/13/2007	5	21.0	188	
SVE-08	7/27/2007	NM	NM	NM	
	8/1/2007	Water	70.0	63	
	9/13/2007	11	21.5	173	
SVE-09	7/27/2007	NM	NM	NM	
	8/1/2007	44	59.0	61	
	9/13/2007	89	21.5	167	
SVE-10	7/27/2007	NM	NM	NM	
	8/1/2007	14	58.0	48	
	9/13/2007	36	22.0	160	
SVE-11	7/27/2007	NM	NM	NM	
	8/1/2007	213	59.0	61	
	9/13/2007	99	21.0	159	
SVE-12	7/27/2007	NM	NM	NM	
	8/1/2007	Water	58.0	58	
	9/13/2007	6	21.5	187	
SVE-13	7/27/2007	NM	NM	NM	
	8/1/2007	10	56.0	236	
	9/13/2007	4	18.5	389	
SVE-14	7/27/2007	75	68.0	1644	
	8/1/2007	Water	72.0	Water	
	9/13/2007	9	20.0	646	
SVE-15	7/27/2007	NM	NM	NM	
	8/1/2007	272	67.0	241	
	9/13/2007	64	18.5	625	

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-16	7/27/2007	NM	NM	NM	
	8/1/2007	Water	80.0	Water	
	9/13/2007	16	18.5	1950	
SVE-17	7/27/2007	NM	NM	NM	
	8/1/2007	Water	62.0	Water	
	9/13/2007	17	19.5	158	
SVE-18	7/27/2007	NM	NM	NM	
	8/1/2007	9	58.0	289	
	9/13/2007	5	18.5	530	
SVE-19	7/27/2007	NM	NM	NM	
	8/1/2007	Water	58.0	85	
	9/13/2007	23	18.5	203	
SVE-20	7/27/2007	NM	NM	NM	
	8/1/2007	115	95.0	74	
	9/13/2007	6	18.0	277	
SVE-21	7/27/2007	NM	NM	NM	
	8/1/2007	95	67.0	109	
	9/13/2007	41	20.0	340	
SVE-22	7/27/2007	NM	NM	NM	
	8/1/2007	-	-	-	Steam Injection Well[1]
	9/13/2007	37	18.5	>2000	
SVE-23	7/27/2007	91	NM	>9999	
	8/1/2007	Water	18.0	5587	
	9/13/2007	7	18.5	>2000	
SVE-24	7/27/2007	Water	64.0	Water	
	8/1/2007	Water	68.0	6917	
	9/13/2007	75	20.0	>2000	
SVE-25	7/27/2007	149	72.0	2045	
	8/1/2007	-	-	-	Steam Injection Well[1]
	9/13/2007	Water	18.5	>2000	
SVE-26	7/27/2007	NM	NM	NM	
	8/1/2007	60	94.0	89	
	9/13/2007	14	18.5	374	
SVE-27	7/27/2007	NM	NM	NM	
	8/1/2007	35	56.0	561	
	9/13/2007	47	18.5	659	
SVE-28	7/27/2007	NM	NM	NM	
	8/1/2007	3	64.0	243	
	9/13/2007	7	18.5	493	
SVE-29	7/27/2007	NM	NM	NM	
	8/1/2007	7	56.0	287	
	9/13/2007	30	20.0	480	
SVE-30	7/27/2007	64	59.0	202	
	8/1/2007	15	61.0	141	
	9/13/2007	6	20.0	193	

Table 3.19
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-31	7/27/2007	NM	NM	NM	
	8/1/2007	19	56.0	319	
	9/13/2007	7	20.5	506	
SVE-32	7/27/2007	27	58.0	103	
	8/1/2007	-	-	-	Steam Injection Well[1]
	9/13/2007	1	2.5	NM	
SVE-33	7/27/2007	14	56.0	249	
	8/1/2007	12	58.0	194	
	9/13/2007	13	18.5	101	
SVE-34	7/27/2007	NM	NM	NM	
	8/1/2007	-	-	-	Steam Injection Well[1]
	9/13/2007	8	19.0	409	
SVE-35	7/27/2007	17	55.0	86	
	8/1/2007	15	58.0	25	
	9/13/2007	6	20.0	69	
SVE-36	7/27/2007	63	57.0	27	
	8/1/2007	21	82.0	65	
	9/13/2007	5	18.5	862	
SVE-37	7/27/2007	92	56.0	70	
	8/1/2007	16	62.0	31	
	9/13/2007	31	17.5	50	
SVE-38	7/27/2007	NM	NM	NM	
	8/1/2007	31	58.0	424	
	9/13/2007	6	20.0	325	
SVE-39	7/27/2007	NM	NM	NM	
	8/1/2007	220	67.0	120	
	9/13/2007	100	18.5	105	
SVE-40	7/27/2007	NM	NM	NM	
	8/1/2007	211	66.0	315	
	9/13/2007	95	18.5	1438	
SVE-41	7/27/2007	NM	NM	NM	
	8/1/2007	Water	79.0	217	
	9/13/2007	8	20.5	225	
SVE-42	7/27/2007	NM	NM	NM	
	8/1/2007	13	56.0	102	
	9/13/2007	5	18.0	150	

Notes:

1 = Data was not collected because well was being utilized for steam injection.

"-" = 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 and Extech Manometer Model 407910.

Table 3.20
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data - Third Quarter 2007
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)
7/27/2007	NM	NM	NM	NM	NM	NM	55	57	56	NM	NM	NM
8/1/2007	12.6	NM	60	12.5	NM	62	57	60	56	0	12.4	NM
9/13/2007	14.0	377	21.5	14.0	377	21	19.5	18.5	18.5	0	13.8	837

Date	Blower Inf Vac (" H_2O)	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 (%)
7/27/2007	NM	NM	NM	NM	NM	NM	-	NM	NM	75	29.83	89%
8/1/2007	66	NM	88	15.3	636	14.0	-	153	6.5	80	30.06	58%
9/13/2007	27	NM	74	15.7	765	24.5	1100	120	7.0	57	30.10	82%

Notes:

"-" = Data not collected
cfm = Cubic feet per minute
scfm = Standard 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
Vac = Vacuum
Diff = Differential
Press = Pressure
NM = Not measured

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-43	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	20	118.0	118	
SVE-44	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	123.0	103	
SVE-45	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	124.5	161	
SVE-46	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	120.5	145	
SVE-47	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	121.5	115	
SVE-48	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	123.0	390	
SVE-49	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	20	121.0	427	
SVE-50	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	122.5	116	
SVE-51	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	20	-	-	Air injection well
SVE-52	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-53	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-54	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	114.0	195	
SVE-55	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	116.0	433	
SVE-56	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	-	-	-	
SVE-57	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	121.5	150	
SVE-58	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	128.0	124	

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-59	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	119.0	121	
SVE-60	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	120.0	125	
SVE-61	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-62	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	118.0	>2000	
SVE-63	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	120.0	1690	
SVE-64	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-65	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	40.0	-	-	Air injection well
SVE-66	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	16	123.0	210	
SVE-67	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	122.5	226	
SVE-68	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	42	106.0	139	
SVE-69	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	-	-	-	
SVE-70	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	40.0	110	
SVE-71	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	76	-	-	Air injection well
SVE-72	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-73	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	
SVE-74	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	36	124.5	109	

Table 3.21
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-75	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	123.0	320	
SVE-76	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	124.5	184	
SVE-77	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	12	120.0	285	
SVE-78	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	110	266	
SVE-79	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	-	-	-	
SVE-80	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	127.0	107	
SVE-81	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	22	125.5	150	
SVE-82	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	133.0	114	
SVE-83	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	Water	126.5	141	
SVE-84	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	130.5	139	
SVE-85	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	78	125.0	75	
SVE-86	7/31/2007	NM	NM	NM	System Down
	8/30/2007	NM	NM	NM	System Down
	9/13/2007	27	130.5	108	
SVE-87	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	Water	132.5	65	
SVE-88	7/31/2007	-	-	-	System Down
	8/30/2007	-	-	-	System Down
	9/13/2007	-	-	-	

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 - Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Date	Line Press (psia)	Flow (scfm)	Vac (" H_2O)	Line Press (psia)	Flow (scfm)	Vac (" H_2O)	Dilution Flow (cfm)	Blower Inf Line Press (psia)	Blower Inf Flow (scfm)	Blower Inf Vac (" H2O)	Blower Inf VOC (ppm)
7/31/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8/30/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/13/2007	10.2	647	124.5	10.2	647	124.5	0	11.1	1815	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 (%)
7/31/2007	NM	NM	NM	NM	NM	NM	NM	89	30.06	62%
8/30/2007	NM	NM	NM	NM	NM	NM	NM	73	30.13	69%
9/13/2007	71	14.7	977	0.0	250	210	12.0	75	30.01	31%

Notes:

"-" = Data not collected
cfm = Cubic feet per minute
scfm = Standard 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
Vac = Vacuum
Diff = Differential
Press = Pressure
NM = Not measured

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Upper Aquifer Wells

Well Designation	Reference Points			9/28/2007		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOIC	Level	Elevation		
MW11	6377	7329	640.47	6.50	633.97		n/a
MW13	5050	7814	634.08	3.43	630.65		n/a
MW37	5395	7976	636.78	5.95	630.83		n/a
MW46	4526	7424	633.32	2.78	630.54		n/a
MW48	5669	7814	636.36	5.30	631.06		n/a
MW49	5551	7650	637.00	5.86	631.14		n/a

Staff Gauges & Piezometers

Well Designation	Reference Points			9/28/2007		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOSG	Level	Elevation		
P23	4689	7018	636.18	6.45	629.73		n/a
P25	5131	7510	633.33	2.89	630.44		n/a
P26	4764	7309	634.23	3.95	630.28		n/a
P27	4904	7020	639.70	9.86	629.84		n/a
P28	5883	7486	644.53	11.71	632.82		n/a
P32	5746	7026	642.32	10.57	631.75		n/a
P40	5931	7241	638.77	5.50	633.27		n/a
P41	5663	7377	637.23	4.84	632.39		n/a
P49	5145	6949	638.98	8.83	630.15		n/a
SG13	4819	7209	631.53	4.98	630.51	TOSG = 6.0' mark	n/a

PGCS Piezometer Sets

Well Designation	Reference Points			9/28/2007		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	Level	Elevation		
P81	5577	7581	636.19	NM	NM	Blockage at 5 ft	n/a
P82	5577	7572	635.77	5.43	630.34		n/a
P83	5577	7561.6	635.95	4.99	630.96		n/a
P84	5322	7603	634.35	4.18	630.17		n/a
P85	5326	7594	634.08	3.93	630.15		n/a
P86	5329	7585	634.41	4.31	630.10		n/a
P87	5121	7466	633.88	3.34	630.54		n/a
P88	5130	7460	633.90	4.08	629.82		n/a
P89	5137	7454	634.02	4.13	629.89		n/a
P90	4881	7152	634.45	NM	NM	Blockage at 4.15 ft	n/a
P91	4889	7145	634.59	5.42	629.17		n/a
P92	4896	7138.1	633.87	4.48	629.39		n/a

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

BWES Water Level and Piezometer Pairs

Well Designation	Reference Points			9/28/2007		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	Level	Elevation		
P93R - Outside BW	n/a	n/a	639.05	9.22	629.83		0.27
P94R - Inside BW	n/a	n/a	640.99	10.89	630.10		
P95 - Outside BW	5146	6532	638.58	8.24	630.34		-4.90
P96 - Inside BW	5156	6537	641.26	15.82	625.44		
P105 - Outside BW	5885	6678	638.86	4.11	634.75		-4.97
P106 - Inside BW	5871	6685	638.10	8.32	629.78		
P107 - Outside BW	5766	7339	637.42	4.73	632.69		-1.15
P108 - Inside BW	5757	7324	638.13	6.59	631.54		
P109 - Outside BW	5740	6387	644.30	9.59	634.71		-6.91
P110 - Inside BW	5705	6382	647.68	19.88	627.80		
P111 - Outside BW	5551	5950	650.03	15.69	634.34		-7.09
P112 - Inside BW	5525	5960	653.36	26.11	627.25		
P113 - Inside BW	5309	5693	657.53	29.90	627.63		-6.10
ORCPZ102 - Outside BW	5331	5612	652.47	18.74	633.73		
P114 - Inside BW	5035	5729	653.69	25.56	628.13		-5.55
P115 - Outside BW	4970	5708	652.50	18.82	633.68		
P116 - Inside BW	5031	6087	646.26	18.17	628.09		-4.47
P117 - Outside BW	5014	6087	643.93	11.37	632.56		
P118 - Inside BW	5402	6539	645.52	17.79	627.73		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 - Third Quarter 2007
American Chemical Service NPL Site
Griffith, Indiana

Date	On-Site Area					
	Target Level	P-29	P-31	P-32	P-36	P-49
7/13/2007	629.0	630.4	630.9	631.1	624.9	627.7
7/27/2007	629.0	630.4	630.9	631.0	626.0	627.7
8/10/2007	629.0	630.4	630.9	630.8	624.9	627.7
9/7/2007	629.0	630.4	630.9	632.2	627.8	632.2
9/28/2007	629.0	630.4	630.9	631.7	627.5	631.0

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
7/13/2007	626.0	623.2	627.2	626.9	627.1	627.5	627.2	627.2	NM	NM	NM
7/27/2007	626.0	622.2	626.0	626.7	627.0	627.4	627.2	626.9	NM	NM	NM
8/1/2007	626.0	NM	NM	NM	NM	NM	NM	NM	629.06	626.53	626.95
8/10/2007	626.0	620.5	626.9	626.5	627.2	627.7	627.9	626.7	NM	NM	NM
9/7/2007	626.0	623.4	629.0	628.2	628.3	628.6	628.6	628.4	NM	NM	NM
9/18/2007	626.0	NM	NM	NM	NM	NM	NM	NM	628.51	628.29	628.21
9/28/2007	626.0	622.6	627.8	627.2	627.8	628.2	628.1	627.6	NM	NM	NM

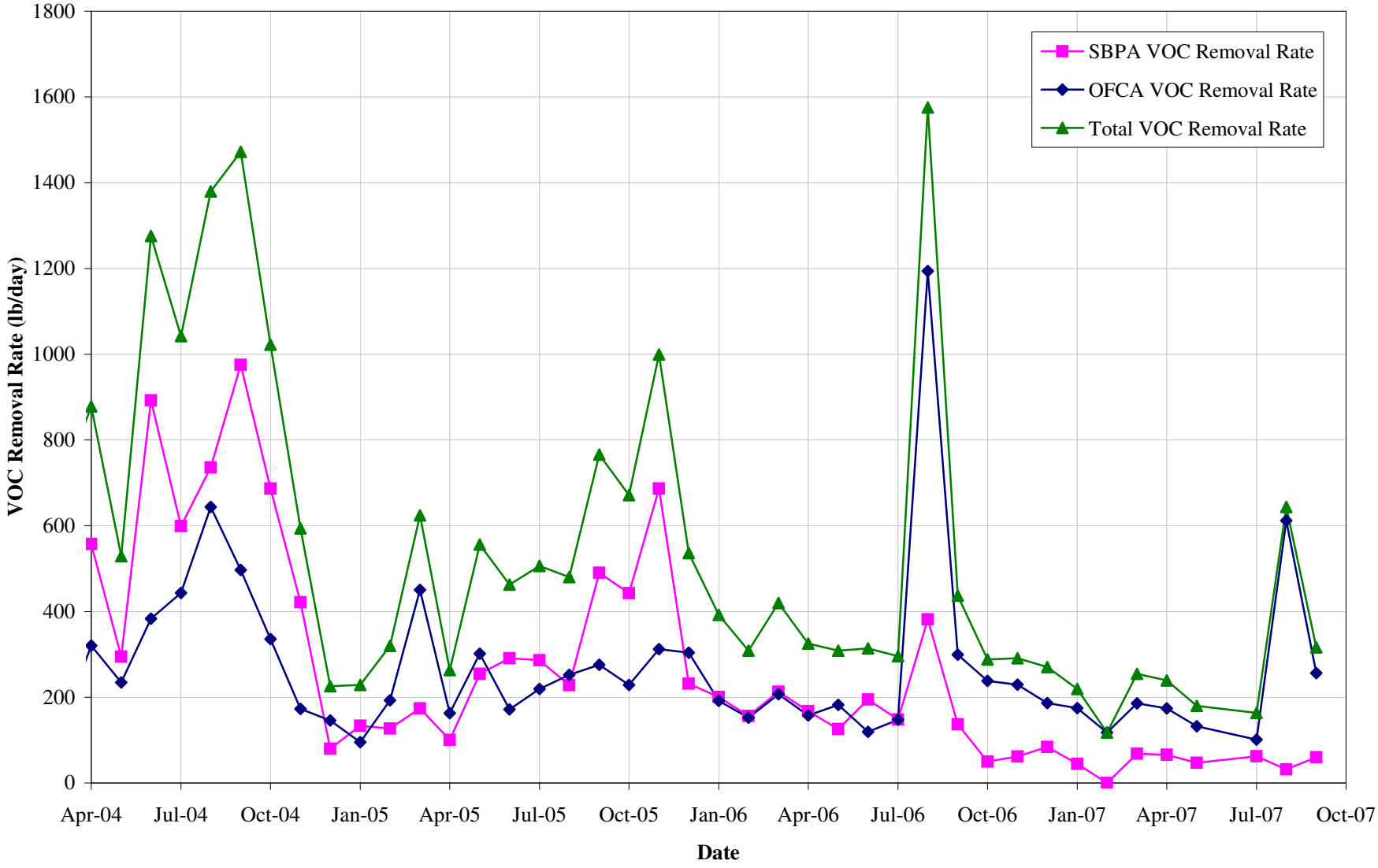
Notes:

All water level elevations are in feet AMSL.

NM - Not measured

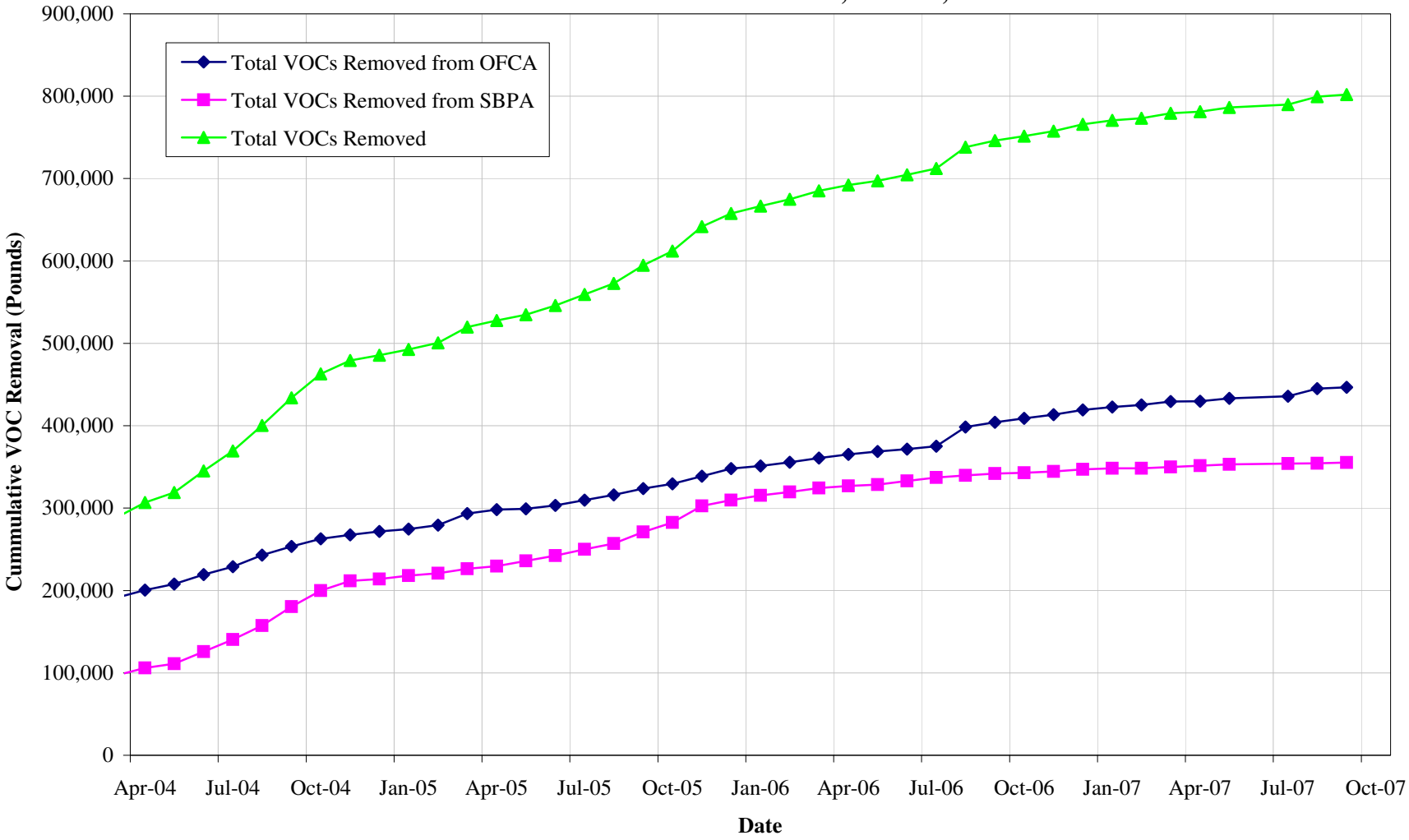
FIGURES

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

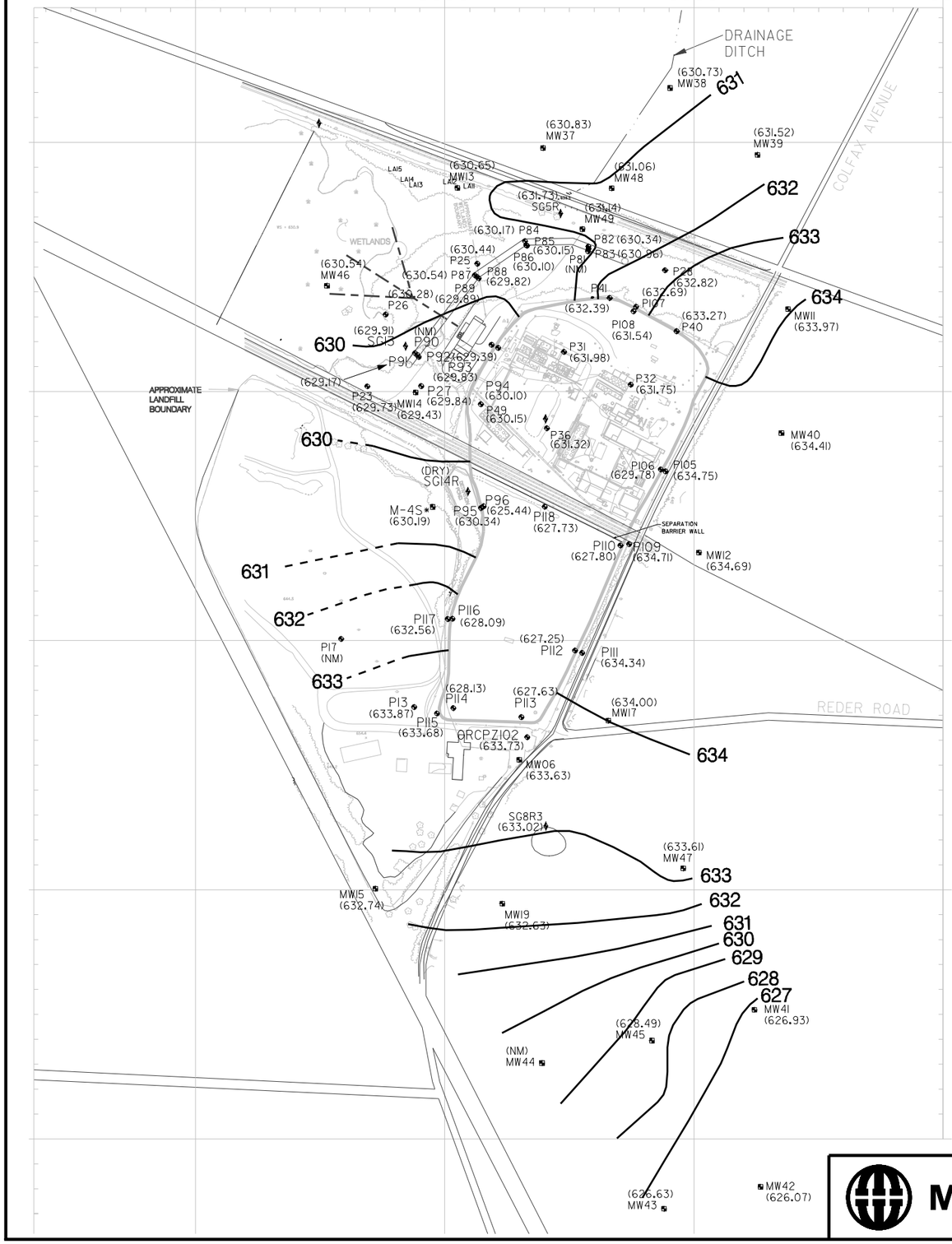


DLA/CDC/CAD
J:\jobs\405\0577 ACS\0201 Engr\05770201a101.xls\VOC Removal Rate

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



DLA/CDC/CAD
J:\jobs\405\0577 ACS\0201 Engr\05770201a101.xls\Total VOCs Removed



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
(634.34)	GROUNDWATER ELEVATION
631	GROUNDWATER ELEVATION CONTOUR (DASHED WHERE APPROXIMATE)
(DRY)	WELL WAS DRY
*	ELEVATION NOT USED IN CONTOURING
(NM)	GROUNDWATER ELEVATION WAS NOT MEASURED

NOTES:

1. P93 AND P94 WERE INSTALLED IN NOVEMBER 2004.
2. GROUNDWATER ELEVATIONS WERE MEASURED ON SEPTEMBER 28, 2007.
3. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

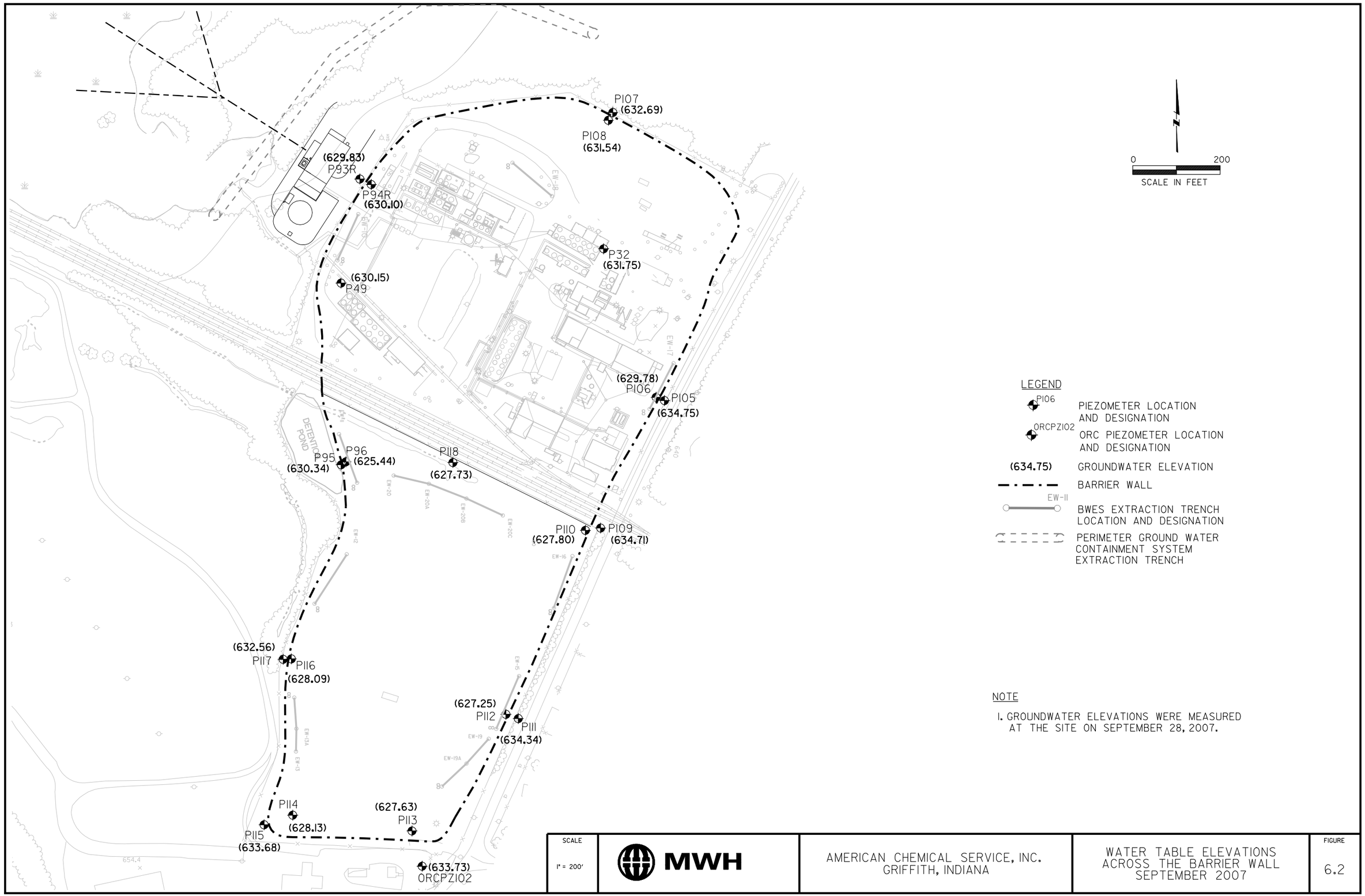
N

0 500 1000

SCALE IN FEET

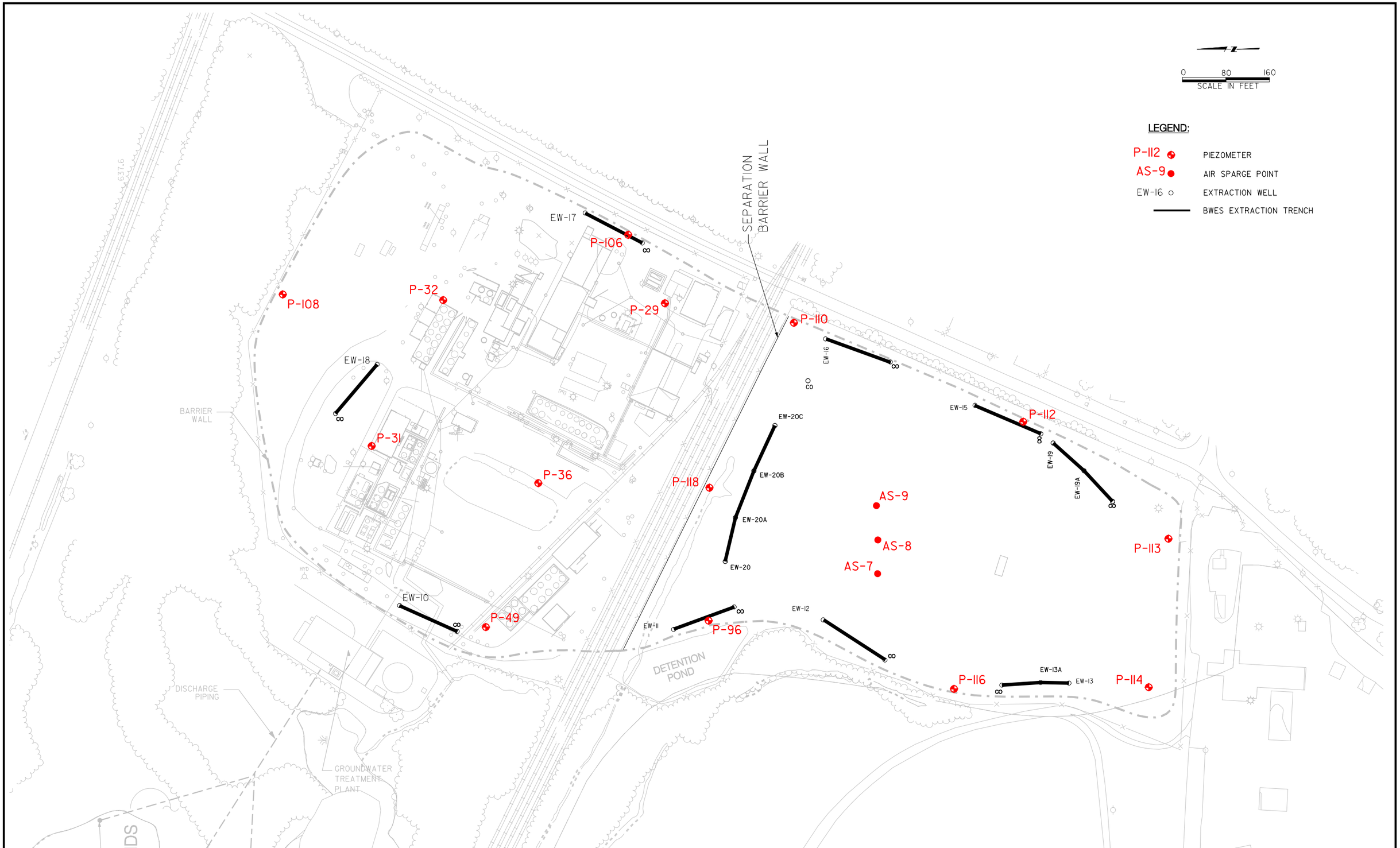
MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	UPPER AQUIFER WATER TABLE CONTOUR MAP SEPTEMBER 2007	FIGURE
	AS SHOWN			6.1

JOB No. MW Job No. FILE: \\uschi4s02\warrenville\Jobs\405\0577 ACS\Master Drawings folder\020\3rd Quarter 2007\Figure 6.10ct07.dgn Plot Date: 11-JAN-2008 13:06 DPP/JEF



SCALE				FIGURE
1" = 200'	MWH	AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA	WATER TABLE ELEVATIONS ACROSS THE BARRIER WALL SEPTEMBER 2007	6.2

JOB No. MW Job No. FILE: \\uschl4s02\warrenville\Jobs\405\0577 ACS\Master Drawings folder\0201\3rd Quarter 2007\Figure 6.2 Oct07.dgn Plot Date: 01-NOV-2007 10:26 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

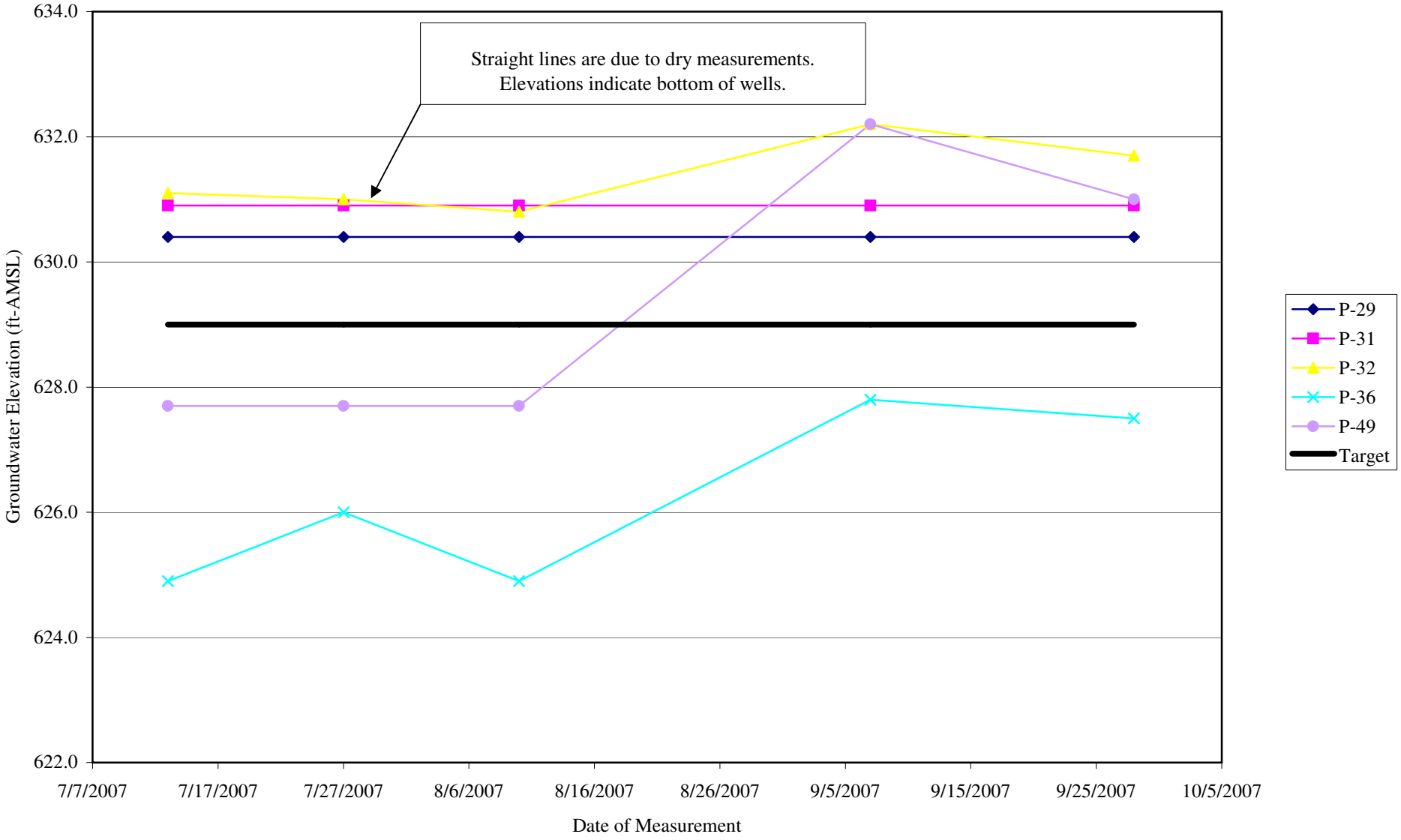
AMERICAN CHEMICAL SERVICE SUPERFUND SITE
GRIFFITH, INDIANA

GROUNDWATER LEVEL MEASURING LOCATIONS

FIGURE 6.3

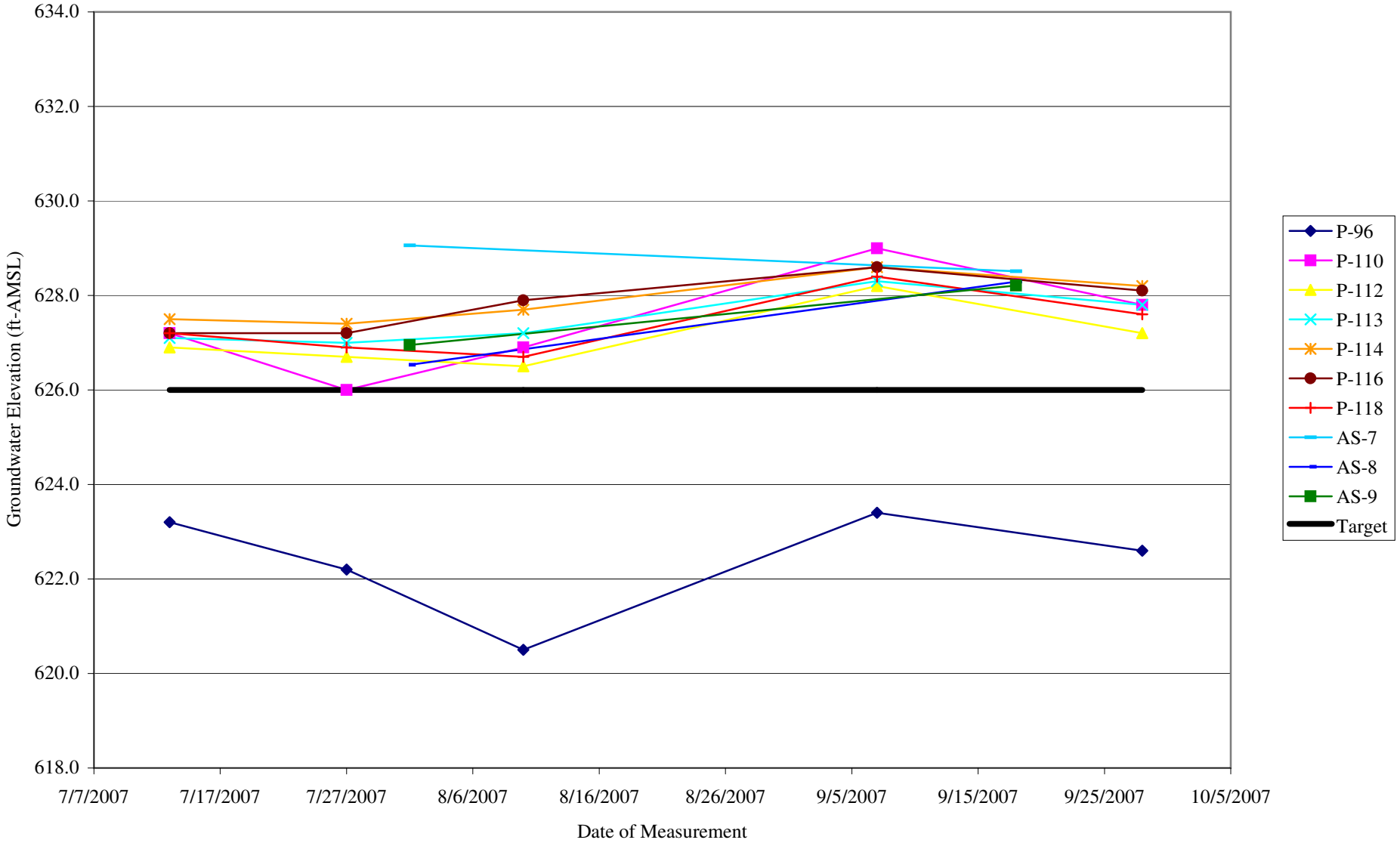
File: J:/405/0577 ACS/master cadd files/020I/3rd quarter 2006/figure63.dgn Plot Date: 19-MAR-2007 11:34

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



JEF/CAD
J:\405\0577 ACS\0201 Engr\05770201a093.xls\SBPA GW Trends

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



JEF/CAD
J:\405\0577 ACS\0201 Engr\05770201a093.xls\Off-Site GW Trends

APPENDIX A

EFFLUENT ANALYTICAL DATA

July 10, 2007 Compliance Sample
Laboratory Results

Microbac®

ANALYTICAL RESULTS

Date: *Thursday, July 19, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Quarterly GWTP / ACS
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0707280-01
Collection Date: 07/10/07 10:45
Date Received: 07/10/07 13:00

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
PCB'S	Method: **SW8082**				Prep Date/Time: **07/17/07 08:14**		Analyst: **ALS**	
Aroclor 1016	A	ND	0.00020	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1221	A	ND	0.00050	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1232	A	ND	0.00050	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1242	A	ND	0.000098	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1248	A	ND	0.00014	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1254	A	ND	0.00017	0.00050		mg/L	1	07/17/07 15:34
Aroclor 1260	A	ND	0.00027	0.00050		mg/L	1	07/17/07 15:34
Surr: Tetrachloro-m-xylene	S	75.0	0	7.58-153		%REC	1	07/17/07 15:34
Surr: Decachlorobiphenyl	S	90.0	0	15.4-169		%REC	1	07/17/07 15:34
TOTAL METALS	Method: **SW6010B**				Prep Date/Time: **07/11/07 07:00**		Analyst: **AVC**	
Arsenic	A	0.0031	0.0025	0.010	J	mg/L	1	07/11/07 13:49
Beryllium	A	ND	00000000014	0.0010		mg/L	1	07/11/07 13:49
Cadmium	A	ND	0.00030	0.0020		mg/L	1	07/11/07 13:49
Manganese	A	0.0013	0.00030	0.0020	Jb	mg/L	1	07/11/07 13:49 UB
Selenium	A	0.0065	0.0053	0.030	J	mg/L	1	07/11/07 13:49 UB
Thallium	A	ND	0.0043	0.050		mg/L	1	07/11/07 13:49
Zinc	A	ND	0.0073	0.020		mg/L	1	07/11/07 13:49
TOTAL METALS	Method: **SW7470A**				Prep Date/Time: **07/13/07 07:50**		Analyst: **SAA**	
Mercury	A	0.000065	0.000043	0.00020	J	mg/L	1	07/13/07 12:42
SEMIVOLATILE ORGANICS	Method: **SW8270C**				Prep Date/Time: **07/13/07 15:47**		Analyst: **BEM**	
Bis(2-ethylhexyl)phthalate	A	0.00473	0.00056	0.0051	Jb	mg/L	1	07/13/07 22:15 0.00514BJ
Bis(2-chloroethyl)ether	A	ND	0.00046	0.0051		mg/L	1	07/13/07 22:15
Isophorone	A	ND	0.00051	0.0051		mg/L	1	07/13/07 22:15
3/4-Methylphenol	A	ND	0.00041	0.0051		mg/L	1	07/13/07 22:15
Pentachlorophenol	A	ND	0.00066	0.026		mg/L	1	07/13/07 22:15
Surr: Nitrobenzene-d5	S	96.7	0	10-121		%REC	1	07/13/07 22:15
Surr: 2-Fluorobiphenyl	S	99.6	0	10-109		%REC	1	07/13/07 22:15
Surr: Terphenyl-d14	S	146	0	10-130	S	%REC	1	07/13/07 22:15
Surr: Phenol-d5	S	39.0	0	10-100		%REC	1	07/13/07 22:15
Surr: 2-Fluorophenol	S	53.7	0	10-84.7		%REC	1	07/13/07 22:15
Surr: 2,4,6-Tribromophenol	S	128	0	10-120	S	%REC	1	07/13/07 22:15
VOC'S	Method: **SW8260B**				Prep Date/Time:		Analyst: **JLN**	
Acetone	A	0.00228	0.0020	0.0050	J	mg/L	1	07/17/07 23:07 J

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

9/19/07

Microbac®

ANALYTICAL RESULTS

Date: *Thursday, July 19, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Quarterly GWTP / ACS
Client Sample ID: Effluent
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0707280-01
Collection Date: 07/10/07 10:45
Date Received: 07/10/07 13:00

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **JLN**
Benzene	A	*ND*	0.00030	0.0010		mg/L	1	07/17/07 23:07
2-Butanone	A	*ND*	0.0015	0.0020		mg/L	1	07/17/07 23:07 UJ
Chloromethane	A	*0.00118*	0.00030	0.0020	Jb	mg/L	1	07/17/07 23:07 0.0020 UB
1,1-Dichloroethane	A	*0.0012*	0.00030	0.0010		mg/L	1	07/17/07 23:07
cis-1,2-Dichloroethene	A	*ND*	0.00040	0.0010		mg/L	1	07/17/07 23:07
Ethylbenzene	A	*ND*	0.00020	0.0010		mg/L	1	07/17/07 23:07
4-Methyl-2-Pentanone	A	*ND*	0.00080	0.0010		mg/L	1	07/17/07 23:07
Methylene chloride	A	*ND*	0.00070	0.0020		mg/L	1	07/17/07 23:07 UJ
Tetrachloroethene	A	*ND*	0.00040	0.0010		mg/L	1	07/17/07 23:07
Trichloroethene	A	*ND*	0.00030	0.0010		mg/L	1	07/17/07 23:07
Vinyl chloride	A	*0.0021*	0.00040	0.0020		mg/L	1	07/17/07 23:07
1,4-Dichlorobenzene	A	*ND*	0.00020	0.0010		mg/L	1	07/17/07 23:07
Surr: 4-Bromofluorobenzene	S	94.7	0	72.8-119		%REC	1	07/17/07 23:07
Surr: Dibromofluoromethane	S	106	0	83.9-116		%REC	1	07/17/07 23:07
Surr: 1,2-Dichloroethane-d4	S	107	0	69.4-130		%REC	1	07/17/07 23:07
Surr: Toluene-d8	S	102	0	84.4-115		%REC	1	07/17/07 23:07
BOD, 5 DAY	Method: **5210B_18ED**			Prep Date/Time: **07/10/07 14:00**				Analyst: **BJH**
Biochemical Oxygen Demand	A	*ND*	2.0	2.0		mg/L	1	07/10/07 14:00
PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **ALL**
pH	A	*7.65*	0.02	0.02	H	pH units	1	07/10/07 14:30
TOTAL SUSPENDED SOLIDS	Method: **2540D_18ED**			Prep Date/Time:				Analyst: **SB**
Total Suspended Solids	A	*1.9*	1.0	1.0		mg/L	1	07/11/07 10:48

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7/19/07

August 7, 2007 Compliance Sample
Laboratory Results

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ANALYTICAL RESULTS

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

Date: *Friday, August 17, 2007*

Work Order / ID: ME0708252-01
Collection Date: 08/07/07 13:20
Date Received: 08/07/07 14:05

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	08/17/07 11:19	UJ
Benzene	A	*ND*	0.00030	0.0010		mg/L	1	08/17/07 11:19	
2-Butanone	A	*ND*	0.0015	0.0020		mg/L	1	08/17/07 11:19	UJ
Chloromethane	A	*0.000890*	0.00030	0.0020	Jb	mg/L	1	08/17/07 11:19	0.00204UB
1,1-Dichloroethane	A	*0.000910*	0.00030	0.0010	J	mg/L	1	08/17/07 11:19	
cis-1,2-Dichloroethene	A	*0.0012*	0.00040	0.0010		mg/L	1	08/17/07 11:19	
Ethylbenzene	A	*ND*	0.00020	0.0010		mg/L	1	08/17/07 11:19	
4-Methyl-2-Pentanone	A	*ND*	0.00080	0.0010		mg/L	1	08/17/07 11:19	
Methylene chloride	A	*ND*	0.00070	0.0020		mg/L	1	08/17/07 11:19	
Tetrachloroethene	A	*ND*	0.00040	0.0010		mg/L	1	08/17/07 11:19	
Trichloroethene	A	*ND*	0.00030	0.0010		mg/L	1	08/17/07 11:19	
Vinyl chloride	A	*0.000920*	0.00040	0.0020	J	mg/L	1	08/17/07 11:19	
1,4-Dichlorobenzene	A	*ND*	0.00020	0.0010		mg/L	1	08/17/07 11:19	
Surr: 4-Bromofluorobenzene	S	81.4	0	72.8-119		%REC	1	08/17/07 11:19	
Surr: Dibromofluoromethane	S	95.8	0	83.9-116		%REC	1	08/17/07 11:19	
Surr: 1,2-Dichloroethane-d4	S	107	0	69.4-130		%REC	1	08/17/07 11:19	
Surr: Toluene-d8	S	100	0	84.4-115		%REC	1	08/17/07 11:19	
PH	Method: **4500H B/9040C**			Prep Date/Time:				Analyst: **SMA**	
pH	A	*7.26*	0.02	0.02	H	pH units	1	08/14/07 11:05	J

10/31/07

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September 20, 2007 Compliance Sample
Laboratory Results

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ANALYTICAL RESULTS

Date: *Monday, October 01, 2007*

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

Work Order / ID: ME0709820-01
Collection Date: 09/20/07 13:15
Date Received: 09/20/07 13:15

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Acetone	A	***0.00245***	0.0020	0.0050	J	mg/L	1	09/28/07 14:25	J
Benzene	A	***ND***	0.00030	0.0010		mg/L	1	09/28/07 14:25	
2-Butanone	A	***ND***	0.0015	0.0020		mg/L	1	09/28/07 14:25	UJ
Chloromethane	A	***0.000500***	0.00030	0.0020	J	mg/L	1	09/28/07 14:25	
1,1-Dichloroethane	A	***ND***	0.00030	0.0010		mg/L	1	09/28/07 14:25	
cis-1,2-Dichloroethene	A	***ND***	0.00040	0.0010		mg/L	1	09/28/07 14:25	
Ethylbenzene	A	***ND***	0.00020	0.0010		mg/L	1	09/28/07 14:25	
4-Methyl-2-Pentanone	A	***ND***	0.00080	0.0010		mg/L	1	09/28/07 14:25	
Methylene chloride	A	***ND***	0.00070	0.0020		mg/L	1	09/28/07 14:25	
Tetrachloroethene	A	***ND***	0.00040	0.0010		mg/L	1	09/28/07 14:25	
Trichloroethene	A	***ND***	0.00030	0.0010		mg/L	1	09/28/07 14:25	
Vinyl chloride	A	***ND***	0.00040	0.0020		mg/L	1	09/28/07 14:25	
1,4-Dichlorobenzene	A	***ND***	0.00020	0.0010		mg/L	1	09/28/07 14:25	
Surr: 4-Bromofluorobenzene	S	105	0	74.3-123		%REC	1	09/28/07 14:25	
Surr: Dibromofluoromethane	S	113	0	84.9-118		%REC	1	09/28/07 14:25	
Surr: 1,2-Dichloroethane-d4	S	117	0	77.9-126		%REC	1	09/28/07 14:25	
Surr: Toluene-d8	S	106	0	80.8-118		%REC	1	09/28/07 14:25	

PH Method: **4500H B/9040C** Prep Date/Time: Analyst: **RJC**

pH	A	***7.31***	0.02	0.02	H	pH units	1	09/20/07 22:55

11/20/07

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APPENDIX B

THERMAL OXIDIZER OFF-GAS ANALYTICAL DATA

July 11, 2007 Off-Gas Sample Laboratory Results

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-01A
Collection Date: 07/11/07 10:00
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*1.3*	0.9	10	J	µg, Total	1	07/19/07 19:58	15
1,2-Dichlorobenzene	A	*26*	0.7	10		µg, Total	1	07/19/07 19:58	
1,3-Dichlorobenzene	A	*0.85*	0.8	10	J	µg, Total	1	07/19/07 19:58	15
1,4-Dichlorobenzene	A	*3*	0.9	10	J	µg, Total	1	07/19/07 19:58	15
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 19:58	
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 19:58	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 19:58	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 19:58	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 19:58	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 19:58	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 19:58	
2-Methylnaphthalene	A	*4*	0.9	10	J	µg, Total	1	07/19/07 19:58	15
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 19:58	
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 19:58	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 19:58	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 19:58	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 19:58	
3/4-Methylphenol	A	*1.9*	0.8	10	J	µg, Total	1	07/19/07 19:58	15
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 19:58	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 19:58	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 19:58	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 19:58	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 19:58	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 19:58	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
Bis(2-ethylhexyl)phthalate	A	*6.4*	1.1	10	Jb	µg, Total	1	07/19/07 19:58	15b
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	07/19/07 19:58	
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	07/19/07 19:58	
Di-n-octyl phthalate	A	*1.3*	1.1	10	Jb	µg, Total	1	07/19/07 19:58	15b
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 19:58	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 19:58	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 19:58	
Hexachlorobutadiene	A	*3.2*	0.9	10	J	µg, Total	1	07/19/07 19:58	15
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 19:58	

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-01A
Collection Date: 07/11/07 10:00
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	ND	0.9	10		µg, Total	1	07/19/07 19:58
Isophorone	A	19	1	10		µg, Total	1	07/19/07 19:58
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	07/19/07 19:58
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	07/19/07 19:58
Nitrobenzene	A	ND	1	10		µg, Total	1	07/19/07 19:58
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	07/19/07 19:58
Phenol	A	ND	0.4	10		µg, Total	1	07/19/07 19:58
Surr: 2,4,6-Tribromophenol	S	23.1	0	30-130	S	%REC	1	07/19/07 19:58
Surr: 2-Fluorobiphenyl	S	84.4	0	30-130		%REC	1	07/19/07 19:58
Surr: 2-Fluorophenol	S	81.0	0	30-130		%REC	1	07/19/07 19:58
Surr: Nitrobenzene-d5	S	71.5	0	30-130		%REC	1	07/19/07 19:58
Surr: Phenol-d5	S	79.1	0	30-130		%REC	1	07/19/07 19:58
Surr: Terphenyl-d14	S	99.4	0	30-130		%REC	1	07/19/07 19:58

PAHS BY GC/MS-SIM Method: **TO-13** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Acenaphthene	A	ND	0.21	1.0		µg, Total	1	07/19/07 23:14
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	07/19/07 23:14
Anthracene	A	ND	0.27	1.0		µg, Total	1	07/19/07 23:14
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	07/19/07 23:14
Benzo[a]pyrene	A	0.48	0.38	1.0	Jb	µg, Total	1	07/19/07 23:14
Benzo[b]fluoranthene	A	0.65	0.44	1.0	Jb	µg, Total	1	07/19/07 23:14
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	07/19/07 23:14
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	07/19/07 23:14
Chrysene	A	ND	0.57	1.0		µg, Total	1	07/19/07 23:14
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	07/19/07 23:14
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	07/19/07 23:14
Fluorene	A	ND	0.25	1.0		µg, Total	1	07/19/07 23:14
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	07/19/07 23:14
Naphthalene	A	23	0.16	1.0		µg, Total	1	07/19/07 23:14
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	07/19/07 23:14
Pyrene	A	ND	0.44	1.0		µg, Total	1	07/19/07 23:14
Surr: Nitrobenzene-d5	S	75.8	0	30-130		%REC	1	07/19/07 23:14
Surr: 2-Fluorobiphenyl	S	67.3	0	30-130		%REC	1	07/19/07 23:14
Surr: Terphenyl-d14	S	77.7	0	30-130		%REC	1	07/19/07 23:14

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-01B
Collection Date: 07/11/07 10:00
Date Received: 07/11/07 13:45

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	*12000*	60	300		ppbv	600	07/21/07 12:54
1,1,2,2-Tetrachloroethane	A	*ND*	22	75		ppbv	150	07/21/07 14:53
1,1,2-Trichloroethane	A	*81*	22	75		ppbv	150	07/21/07 14:53
1,1-Dichloroethane	A	*2400*	21	75		ppbv	150	07/21/07 14:53
1,1-Dichloroethene	A	*50*	38	75	J	ppbv	150	07/23/07 16:30
1,2-Dichloroethane	A	*520*	18	75		ppbv	150	07/21/07 14:53
1,2-Dichloropropane	A	*130*	33	75		ppbv	150	07/21/07 14:53
2-Butanone	A	*6600*	280	1200		ppbv	600	07/21/07 12:54
2-Hexanone	A	*ND*	39	300		ppbv	150	07/21/07 14:53
4-Methyl-2-Pentanone	A	*3200*	190	300		ppbv	600	07/21/07 12:54
Acetone	A	*10000*	170	1200		ppbv	600	07/21/07 12:54
Benzene	A	*5100*	110	300		ppbv	600	07/21/07 12:54
Bromodichloromethane	A	*110*	16	75		ppbv	150	07/21/07 14:53
Bromoform	A	*ND*	45	75		ppbv	150	07/21/07 14:53
Bromomethane	A	*ND*	24	75		ppbv	150	07/21/07 14:53
Carbon disulfide	A	*260*	12	150		ppbv	150	07/21/07 14:53
Carbon tetrachloride	A	*ND*	12	75		ppbv	150	07/21/07 14:53
Chlorobenzene	A	*240*	16	75		ppbv	150	07/21/07 14:53
Chloroethane	A	*75*	45	75		ppbv	150	07/21/07 14:53
Chloroform	A	*1300*	18	75		ppbv	150	07/21/07 14:53
Chloromethane	A	*ND*	30	300		ppbv	150	07/21/07 14:53
cis-1,2-Dichloroethene	A	*1200*	33	75		ppbv	150	07/21/07 14:53
cis-1,3-Dichloropropene	A	*ND*	27	75		ppbv	150	07/21/07 14:53
Dibromochloromethane	A	*ND*	18	75		ppbv	150	07/21/07 14:53
Ethyl benzene	A	*6500*	72	300		ppbv	600	07/21/07 12:54
m,p-Xylene	A	*12000*	42	300		ppbv	600	07/21/07 12:54
Methylene chloride	A	*19000*	450	1500		ppbv	3,00	07/23/07 15:11
o-Xylene	A	*9200*	48	300		ppbv	600	07/21/07 12:54
Styrene	A	*210*	12	75		ppbv	150	07/21/07 14:53
Tetrachloroethene	A	*9800*	100	300		ppbv	600	07/21/07 12:54
Toluene	A	*52000*	300	1500		ppbv	3,00	07/23/07 15:11
trans-1,2-Dichloroethene	A	*ND*	24	75		ppbv	150	07/21/07 14:53
trans-1,3-Dichloropropene	A	*ND*	27	75		ppbv	150	07/21/07 14:53
Trichloroethene	A	*9800*	48	300		ppbv	600	07/21/07 12:54
Vinyl chloride	A	*140*	34	75		ppbv	150	07/21/07 14:53
Surr: 4-Bromofluorobenzene	S	100	0	70-130		%REC	150	07/21/07 14:53

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-02A
Collection Date: 07/11/07 10:04
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*13*	0.9	10		µg, Total	1	07/19/07 20:22
1,2-Dichlorobenzene	A	*18*	0.7	10		µg, Total	1	07/19/07 20:22
1,3-Dichlorobenzene	A	*2*	0.8	10	J	µg, Total	1	07/19/07 20:22
1,4-Dichlorobenzene	A	*5.1*	0.9	10	J	µg, Total	1	07/19/07 20:22
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 20:22
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:22
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:22
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 20:22
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:22
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 20:22
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:22
2-Methylnaphthalene	A	*5.2*	0.9	10	J	µg, Total	1	07/19/07 20:22
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:22
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 20:22
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 20:22
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 20:22
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 20:22
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:22
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 20:22
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 20:22
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 20:22
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 20:22
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 20:22
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 20:22
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
Bis(2-ethylhexyl)phthalate	A	*7*	1.1	10	Jb	µg, Total	1	07/19/07 20:22
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	07/19/07 20:22
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	07/19/07 20:22
Di-n-octyl phthalate	A	*1.4*	1.1	10	Jb	µg, Total	1	07/19/07 20:22
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:22
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 20:22
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:22
Hexachlorobutadiene	A	*10*	0.9	10		µg, Total	1	07/19/07 20:22
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 20:22

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-02A
Collection Date: 07/11/07 10:04
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**				Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**		
Hexachloroethane	A	ND	0.9	10		µg, Total	1	07/19/07 20:22
Isophorone	A	6.8	1	10	J	µg, Total	1	07/19/07 20:22
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	07/19/07 20:22
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	07/19/07 20:22
Nitrobenzene	A	ND	1	10		µg, Total	1	07/19/07 20:22
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	07/19/07 20:22
Phenol	A	ND	0.4	10		µg, Total	1	07/19/07 20:22
Surr: 2,4,6-Tribromophenol	S	27.7	0	30-130	S	%REC	1	07/19/07 20:22
Surr: 2-Fluorobiphenyl	S	82.9	0	30-130		%REC	1	07/19/07 20:22
Surr: 2-Fluorophenol	S	90.6	0	30-130		%REC	1	07/19/07 20:22
Surr: Nitrobenzene-d5	S	79.9	0	30-130		%REC	1	07/19/07 20:22
Surr: Phenol-d5	S	88.1	0	30-130		%REC	1	07/19/07 20:22
Surr: Terphenyl-d14	S	107	0	30-130		%REC	1	07/19/07 20:22
PAHS BY GC/MS-SIM Method: **TO-13**				Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**		
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	07/19/07 23:41
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	07/19/07 23:41
Anthracene	A	ND	0.27	1.0		µg, Total	1	07/19/07 23:41
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	07/19/07 23:41
Benzo[a]pyrene	A	0.47	0.38	1.0	Jb	µg, Total	1	07/19/07 23:41
Benzo[b]fluoranthene	A	0.7	0.44	1.0	Jb	µg, Total	1	07/19/07 23:41
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	07/19/07 23:41
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	07/19/07 23:41
Chrysene	A	ND	0.57	1.0		µg, Total	1	07/19/07 23:41
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	07/19/07 23:41
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	07/19/07 23:41
Fluorene	A	ND	0.25	1.0		µg, Total	1	07/19/07 23:41
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	07/19/07 23:41
Naphthalene	A	12	0.16	1.0		µg, Total	1	07/19/07 23:41
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	07/19/07 23:41
Pyrene	A	ND	0.44	1.0		µg, Total	1	07/19/07 23:41
Surr: Nitrobenzene-d5	S	83.9	0	30-130		%REC	1	07/19/07 23:41
Surr: 2-Fluorobiphenyl	S	66.6	0	30-130		%REC	1	07/19/07 23:41
Surr: Terphenyl-d14	S	80.8	0	30-130		%REC	1	07/19/07 23:41

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-02B
Collection Date: 07/11/07 10:04
Date Received: 07/11/07 13:45

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	*12000*	60	300		ppbv	600	07/21/07 13:33
1,1,2,2-Tetrachloroethane	A	*26*	22	75	J	ppbv	150	07/21/07 14:13
1,1,2-Trichloroethane	A	*32*	22	75	J	ppbv	150	07/21/07 14:13
1,1-Dichloroethane	A	*2200*	21	75		ppbv	150	07/21/07 14:13
1,1-Dichloroethene	A	*120*	38	75		ppbv	150	07/23/07 17:10
1,2-Dichloroethane	A	*220*	18	75		ppbv	150	07/21/07 14:13
1,2-Dichloropropane	A	*200*	33	75		ppbv	150	07/21/07 14:13
2-Butanone	A	*730*	69	300		ppbv	150	07/21/07 14:13
2-Hexanone	A	*460*	39	300		ppbv	150	07/21/07 14:13
4-Methyl-2-Pentanone	A	*880*	46	75		ppbv	150	07/21/07 14:13
Acetone	A	*770*	44	300		ppbv	150	07/21/07 14:13
Benzene	A	*2300*	27	75		ppbv	150	07/21/07 14:13
Bromodichloromethane	A	*74*	16	75	J	ppbv	150	07/21/07 14:13
Bromoform	A	*ND*	45	75		ppbv	150	07/21/07 14:13
Bromomethane	A	*ND*	24	75		ppbv	150	07/21/07 14:13
Carbon disulfide	A	*470*	12	150		ppbv	150	07/21/07 14:13
Carbon tetrachloride	A	*ND*	12	75		ppbv	150	07/21/07 14:13
Chlorobenzene	A	*250*	16	75		ppbv	150	07/21/07 14:13
Chloroethane	A	*230*	45	75		ppbv	150	07/21/07 14:13
Chloroform	A	*3700*	72	300		ppbv	600	07/21/07 13:33
Chloromethane	A	*ND*	30	300		ppbv	150	07/21/07 14:13
cis-1,2-Dichloroethene	A	*11000*	130	300		ppbv	600	07/21/07 13:33
cis-1,3-Dichloropropene	A	*ND*	27	75		ppbv	150	07/21/07 14:13
Dibromochloromethane	A	*ND*	18	75		ppbv	150	07/21/07 14:13
Ethyl benzene	A	*4700*	72	300		ppbv	600	07/21/07 13:33
m,p-Xylene	A	*8200*	42	300		ppbv	600	07/21/07 13:33
Methylene chloride	A	*7000*	90	300		ppbv	600	07/21/07 13:33
o-Xylene	A	*7500*	48	300		ppbv	600	07/21/07 13:33
Styrene	A	*88*	12	75		ppbv	150	07/21/07 14:13
Tetrachloroethene	A	*20000*	510	1500		ppbv	3,000	07/23/07 15:49
Toluene	A	*29000*	300	1500		ppbv	3,000	07/23/07 15:49
trans-1,2-Dichloroethene	A	*86*	24	75		ppbv	150	07/21/07 14:13
trans-1,3-Dichloropropene	A	*ND*	27	75		ppbv	150	07/21/07 14:13
Trichloroethene	A	*7600*	48	300		ppbv	600	07/21/07 13:33
Vinyl chloride	A	*770*	34	75		ppbv	150	07/21/07 14:13
Surr: 4-Bromofluorobenzene	S	102	0	70-130		%REC	150	07/21/07 14:13

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-03A
Collection Date: 07/11/07 10:52
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*14*	0.9	10		µg, Total	1	07/19/07 20:47
1,2-Dichlorobenzene	A	*21*	0.7	10		µg, Total	1	07/19/07 20:47
1,3-Dichlorobenzene	A	*2.3*	0.8	10	J	µg, Total	1	07/19/07 20:47
1,4-Dichlorobenzene	A	*5.3*	0.9	10	J	µg, Total	1	07/19/07 20:47
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 20:47
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:47
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:47
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 20:47
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:47
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 20:47
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:47
2-Methylnaphthalene	A	*5.4*	0.9	10	J	µg, Total	1	07/19/07 20:47
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 20:47
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 20:47
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 20:47
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 20:47
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 20:47
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:47
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 20:47
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 20:47
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 20:47
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 20:47
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 20:47
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 20:47
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
Bis(2-ethylhexyl)phthalate	A	*110*	1.1	10	b	µg, Total	1	07/19/07 20:47
Butyl benzyl phthalate	A	*1.1*	1	10	Jb	µg, Total	1	07/19/07 20:47
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	07/19/07 20:47
Di-n-octyl phthalate	A	*3.4*	1.1	10	Jb	µg, Total	1	07/19/07 20:47
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 20:47
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 20:47
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 20:47
Hexachlorobutadiene	A	*11*	0.9	10		µg, Total	1	07/19/07 20:47
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 20:47

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-03A
Collection Date: 07/11/07 10:52
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	07/19/07 20:47
Isophorone	A	***7.4***	1	10	J	µg, Total	1	07/19/07 20:47
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	07/19/07 20:47
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	07/19/07 20:47
Nitrobenzene	A	***ND***	1	10		µg, Total	1	07/19/07 20:47
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	07/19/07 20:47
Phenol	A	***ND***	0.4	10		µg, Total	1	07/19/07 20:47
Surr: 2,4,6-Tribromophenol	S	51.7	0	30-130		%REC	1	07/19/07 20:47
Surr: 2-Fluorobiphenyl	S	84.3	0	30-130		%REC	1	07/19/07 20:47
Surr: 2-Fluorophenol	S	97.8	0	30-130		%REC	1	07/19/07 20:47
Surr: Nitrobenzene-d5	S	80.4	0	30-130		%REC	1	07/19/07 20:47
Surr: Phenol-d5	S	91.2	0	30-130		%REC	1	07/19/07 20:47
Surr: Terphenyl-d14	S	109	0	30-130		%REC	1	07/19/07 20:47
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	07/20/07 00:06
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	07/20/07 00:06
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 00:06
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	07/20/07 00:06
Benzo[a]pyrene	A	***0.57***	0.38	1.0	Jb	µg, Total	1	07/20/07 00:06
Benzo[b]fluoranthene	A	***0.69***	0.44	1.0	Jb	µg, Total	1	07/20/07 00:06
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	07/20/07 00:06
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	07/20/07 00:06
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	07/20/07 00:06
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	07/20/07 00:06
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	07/20/07 00:06
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	07/20/07 00:06
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	07/20/07 00:06
Naphthalene	A	***13***	0.16	1.0		µg, Total	1	07/20/07 00:06
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 00:06
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	07/20/07 00:06
Surr: Nitrobenzene-d5	S	85.4	0	30-130		%REC	1	07/20/07 00:06
Surr: 2-Fluorobiphenyl	S	70.5	0	30-130		%REC	1	07/20/07 00:06
Surr: Terphenyl-d14	S	82.1	0	30-130		%REC	1	07/20/07 00:06

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-03B
Collection Date: 07/11/07 10:52
Date Received: 07/11/07 13:45

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*	150	750		ppbv	,50	07/16/07 23:00
1,1,2,2-Tetrachloroethane	A	*ND*	9	30		ppbv	60	07/17/07 10:24
1,1,2-Trichloroethane	A	*63*	9	30		ppbv	60	07/17/07 10:24
1,1-Dichloroethane	A	*3200*	210	750		ppbv	,50	07/16/07 23:00
1,1-Dichloroethene	A	*130*	15	30		ppbv	60	07/17/07 10:24
1,2-Dichloroethane	A	*310*	7.2	30		ppbv	60	07/17/07 10:24
1,2-Dichloropropane	A	*390*	13	30		ppbv	60	07/17/07 10:24
2-Butanone	A	*950*	28	120		ppbv	60	07/17/07 10:24
2-Hexanone	A	*1000*	16	120		ppbv	60	07/17/07 10:24
4-Methyl-2-Pentanone	A	*1100*	19	30		ppbv	60	07/17/07 10:24
Acetone	A	*910*	17	120		ppbv	60	07/17/07 10:24
Benzene	A	*4200*	270	750		ppbv	,50	07/16/07 23:00
Bromodichloromethane	A	*67*	6.6	30		ppbv	60	07/17/07 10:24
Bromoform	A	*ND*	18	30		ppbv	60	07/17/07 10:24
Bromomethane	A	*ND*	9.6	30		ppbv	60	07/17/07 10:24
Carbon disulfide	A	*1000*	4.8	60		ppbv	60	07/17/07 10:24
Carbon tetrachloride	A	*ND*	4.8	30		ppbv	60	07/17/07 10:24
Chlorobenzene	A	*ND*	6.6	30		ppbv	60	07/17/07 10:24
Chloroethane	A	*260*	18	30		ppbv	60	07/17/07 10:24
Chloroform	A	*5300*	180	750		ppbv	,50	07/16/07 23:00
Chloromethane	A	*20*	12	120	J	ppbv	60	07/17/07 10:24
cis-1,2-Dichloroethene	A	*17000*	330	750		ppbv	,50	07/16/07 23:00
cis-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/17/07 10:24
Dibromochloromethane	A	*ND*	7.2	30		ppbv	60	07/17/07 10:24
Ethyl benzene	A	*7100*	180	750		ppbv	,50	07/16/07 23:00
m,p-Xylene	A	*12000*	100	750		ppbv	,50	07/16/07 23:00
Methylene chloride	A	*8800*	220	750		ppbv	,50	07/16/07 23:00
o-Xylene	A	*11000*	120	750		ppbv	,50	07/16/07 23:00
Styrene	A	*160*	4.8	30		ppbv	60	07/17/07 10:24
Tetrachloroethene	A	*27000*	510	1500		ppbv	,00	07/18/07 11:20
Toluene	A	*50000*	300	1500		ppbv	,00	07/18/07 11:20
trans-1,2-Dichloroethene	A	*170*	9.6	30		ppbv	60	07/17/07 10:24
trans-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/17/07 10:24
Trichloroethene	A	*11000*	120	750		ppbv	,50	07/16/07 23:00
Vinyl chloride	A	*1000*	14	30		ppbv	60	07/17/07 10:24
Surr: 4-Bromofluorobenzene	S	110	0	70-130		%REC	60	07/17/07 10:24

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INF DUP
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-04A
Collection Date: 07/11/07 11:25
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*17*	0.9	10		µg, Total	1	07/19/07 21:12	
1,2-Dichlorobenzene	A	*23*	0.7	10		µg, Total	1	07/19/07 21:12	
1,3-Dichlorobenzene	A	*2.5*	0.8	10	J	µg, Total	1	07/19/07 21:12	15
1,4-Dichlorobenzene	A	*5.8*	0.9	10	J	µg, Total	1	07/19/07 21:12	15
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 21:12	
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 21:12	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 21:12	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 21:12	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 21:12	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 21:12	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 21:12	
2-Methylnaphthalene	A	*6.8*	0.9	10	J	µg, Total	1	07/19/07 21:12	15
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 21:12	
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 21:12	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 21:12	
3,3'-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 21:12	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 21:12	
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 21:12	
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 21:12	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 21:12	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 21:12	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 21:12	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 21:12	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 21:12	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
Bis(2-ethylhexyl)phthalate	A	*93*	1.1	10	b	µg, Total	1	07/19/07 21:12	1b
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	07/19/07 21:12	
Di-n-butyl phthalate	A	*2.2*	1.2	10	J	µg, Total	1	07/19/07 21:12	15
Di-n-octyl phthalate	A	*2.9*	1.1	10	Jb	µg, Total	1	07/19/07 21:12	15b
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 21:12	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 21:12	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 21:12	
Hexachlorobutadiene	A	*13*	0.9	10		µg, Total	1	07/19/07 21:12	
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 21:12	

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INF DUP
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-04A
Collection Date: 07/11/07 11:25
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**					Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	07/19/07 21:12
Isophorone	A	8.1	1	10	J	µg, Total	1	07/19/07 21:12
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	07/19/07 21:12
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	07/19/07 21:12
Nitrobenzene	A	ND	1	10		µg, Total	1	07/19/07 21:12
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	07/19/07 21:12
Phenol	A	ND	0.4	10		µg, Total	1	07/19/07 21:12
Surr: 2,4,6-Tribromophenol	S	51.6	0	30-130		%REC	1	07/19/07 21:12
Surr: 2-Fluorobiphenyl	S	80.3	0	30-130		%REC	1	07/19/07 21:12
Surr: 2-Fluorophenol	S	89.5	0	30-130		%REC	1	07/19/07 21:12
Surr: Nitrobenzene-d5	S	77.1	0	30-130		%REC	1	07/19/07 21:12
Surr: Phenol-d5	S	85.3	0	30-130		%REC	1	07/19/07 21:12
Surr: Terphenyl-d14	S	109	0	30-130		%REC	1	07/19/07 21:12
PAHS BY GC/MS-SIM Method: **TO-13**					Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	07/20/07 00:33
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	07/20/07 00:33
Anthracene	A	ND	0.27	1.0		µg, Total	1	07/20/07 00:33
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	07/20/07 00:33
Benzo[a]pyrene	A	0.48	0.38	1.0	Jb	µg, Total	1	07/20/07 00:33
Benzo[b]fluoranthene	A	0.74	0.44	1.0	Jb	µg, Total	1	07/20/07 00:33
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	07/20/07 00:33
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	07/20/07 00:33
Chrysene	A	ND	0.57	1.0		µg, Total	1	07/20/07 00:33
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	07/20/07 00:33
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	07/20/07 00:33
Fluorene	A	ND	0.25	1.0		µg, Total	1	07/20/07 00:33
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	07/20/07 00:33
Naphthalene	A	16	0.16	1.0		µg, Total	1	07/20/07 00:33
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	07/20/07 00:33
Pyrene	A	ND	0.44	1.0		µg, Total	1	07/20/07 00:33
Surr: Nitrobenzene-d5	S	79.6	0	30-130		%REC	1	07/20/07 00:33
Surr: 2-Fluorobiphenyl	S	67.0	0	30-130		%REC	1	07/20/07 00:33
Surr: Terphenyl-d14	S	77.7	0	30-130		%REC	1	07/20/07 00:33

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 INF DUP
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-04B
Collection Date: 07/11/07 11:25
Date Received: 07/11/07 13:45

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	***25000***	300	1500		ppbv	3,00	07/18/07 10:41
1,1,2,2-Tetrachloroethane	A	***46***	9	30		ppbv	60	07/18/07 12:02
1,1,2-Trichloroethane	A	***69***	9	30		ppbv	60	07/18/07 12:02
1,1-Dichloroethane	A	***3300***	42	150		ppbv	300	07/18/07 08:45
1,1-Dichloroethene	A	***110***	15	30		ppbv	60	07/18/07 12:02
1,2-Dichloroethane	A	***330***	7.2	30		ppbv	60	07/18/07 12:02
1,2-Dichloropropane	A	***370***	13	30		ppbv	60	07/18/07 12:02
2-Butanone	A	***1100***	28	120		ppbv	60	07/18/07 12:02
2-Hexanone	A	***850***	78	600		ppbv	300	07/18/07 08:45
4-Methyl-2-Pentanone	A	***1800***	93	150		ppbv	300	07/18/07 08:45
Acetone	A	***810***	17	120		ppbv	60	07/18/07 12:02
Benzene	A	***4100***	54	150		ppbv	300	07/18/07 08:45
Bromodichloromethane	A	***79***	6.6	30		ppbv	60	07/18/07 12:02
Bromoform	A	***ND***	18	30		ppbv	60	07/18/07 12:02
Bromomethane	A	***ND***	9.6	30		ppbv	60	07/18/07 12:02
Carbon disulfide	A	***370***	4.8	60		ppbv	60	07/18/07 12:02
Carbon tetrachloride	A	***ND***	4.8	30		ppbv	60	07/18/07 12:02
Chlorobenzene	A	***13***	6.6	30	J	ppbv	60	07/18/07 12:02
Chloroethane	A	***210***	18	30		ppbv	60	07/18/07 12:02
Chloroform	A	***8300***	360	1500		ppbv	3,00	07/18/07 10:41
Chloromethane	A	***19***	12	120	J	ppbv	60	07/18/07 12:02
cis-1,2-Dichloroethene	A	***28000***	660	1500		ppbv	3,00	07/18/07 10:41
cis-1,3-Dichloropropene	A	***ND***	11	30		ppbv	60	07/18/07 12:02
Dibromochloromethane	A	***ND***	7.2	30		ppbv	60	07/18/07 12:02
Ethyl benzene	A	***10000***	360	1500		ppbv	3,00	07/18/07 10:41
m,p-Xylene	A	***19000***	210	1500		ppbv	3,00	07/18/07 10:41
Methylene chloride	A	***4900***	45	150		ppbv	300	07/18/07 08:45
o-Xylene	A	***16000***	240	1500		ppbv	3,00	07/18/07 10:41
Styrene	A	***170***	4.8	30		ppbv	60	07/18/07 12:02
Tetrachloroethene	A	***31000***	510	1500		ppbv	3,00	07/18/07 10:41
Toluene	A	***50000***	300	1500		ppbv	3,00	07/18/07 10:41
trans-1,2-Dichloroethene	A	***150***	9.6	30		ppbv	60	07/18/07 12:02
trans-1,3-Dichloropropene	A	***ND***	11	30		ppbv	60	07/18/07 12:02
Trichloroethene	A	***17000***	240	1500		ppbv	3,00	07/18/07 10:41
Vinyl chloride	A	***910***	14	30		ppbv	60	07/18/07 12:02
Surr: 4-Bromofluorobenzene	S	113	0	70-130		%REC	60	07/18/07 12:02

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-05A
Collection Date: 07/11/07 10:55
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	07/19/07 21:36
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	07/19/07 21:36
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	07/19/07 21:36
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	07/19/07 21:36
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	07/19/07 21:36
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	07/19/07 21:36
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	07/19/07 21:36
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	07/19/07 21:36
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	07/19/07 21:36
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
2-Methylphenol	A	ND	0.7	10		µg, Total	1	07/19/07 21:36
2-Nitroaniline	A	ND	1	50		µg, Total	1	07/19/07 21:36
2-Nitrophenol	A	ND	1	10		µg, Total	1	07/19/07 21:36
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	07/19/07 21:36
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	07/19/07 21:36
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	07/19/07 21:36
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	07/19/07 21:36
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	07/19/07 21:36
4-Chloroaniline	A	ND	1	20		µg, Total	1	07/19/07 21:36
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	07/19/07 21:36
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	07/19/07 21:36
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	07/19/07 21:36
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
Bis(2-ethylhexyl)phthalate	A	16	1.1	10	b	µg, Total	1	07/19/07 21:36
Butyl benzyl phthalate	A	2.4	1	10	Jb	µg, Total	1	07/19/07 21:36
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	07/19/07 21:36
Di-n-octyl phthalate	A	1.5	1.1	10	Jb	µg, Total	1	07/19/07 21:36
Dibenzofuran	A	ND	0.8	10		µg, Total	1	07/19/07 21:36
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	07/19/07 21:36
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	07/19/07 21:36
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	07/19/07 21:36

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client:	MWH, Inc.		
Client Project:	July 2007 - Monthly Air / ACS		
Client Sample ID:	#5 TOX 1 EFF	**Work Order / ID:**	ME0707369-05A
Sample Description:		**Collection Date:**	07/11/07 10:55
Sample Matrix:	Air	**Date Received:**	07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**				Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**		
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	07/19/07 21:36
Isophorone	A	***ND***	1	10		µg, Total	1	07/19/07 21:36
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	07/19/07 21:36
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	07/19/07 21:36
Nitrobenzene	A	***ND***	1	10		µg, Total	1	07/19/07 21:36
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	07/19/07 21:36
Phenol	A	***3.5***	0.4	10	J	µg, Total	1	07/19/07 21:36
Surr: 2,4,6-Tribromophenol	S	36.5	0	30-130		%REC	1	07/19/07 21:36
Surr: 2-Fluorobiphenyl	S	82.2	0	30-130		%REC	1	07/19/07 21:36
Surr: 2-Fluorophenol	S	92.5	0	30-130		%REC	1	07/19/07 21:36
Surr: Nitrobenzene-d5	S	80.9	0	30-130		%REC	1	07/19/07 21:36
Surr: Phenol-d5	S	88.7	0	30-130		%REC	1	07/19/07 21:36
Surr: Terphenyl-d14	S	113	0	30-130		%REC	1	07/19/07 21:36
PAHS BY GC/MS-SIM Method: **TO-13**				Prep Date/Time: **07/18/07 14:15**		Analyst: **BEM**		
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	07/20/07 00:59
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	07/20/07 00:59
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 00:59
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	07/20/07 00:59
Benzo[a]pyrene	A	***0.47***	0.38	1.0	Jb	µg, Total	1	07/20/07 00:59
Benzo[b]fluoranthene	A	***0.81***	0.44	1.0	Jb	µg, Total	1	07/20/07 00:59
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	07/20/07 00:59
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	07/20/07 00:59
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	07/20/07 00:59
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	07/20/07 00:59
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	07/20/07 00:59
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	07/20/07 00:59
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	07/20/07 00:59
Naphthalene	A	***0.18***	0.16	1.0	J	µg, Total	1	07/20/07 00:59
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 00:59
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	07/20/07 00:59
Surr: Nitrobenzene-d5	S	90.1	0	30-130		%REC	1	07/20/07 00:59
Surr: 2-Fluorobiphenyl	S	71.0	0	30-130		%REC	1	07/20/07 00:59
Surr: Terphenyl-d14	S	84.1	0	30-130		%REC	1	07/20/07 00:59

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-05B
Collection Date: 07/11/07 10:55
Date Received: 07/11/07 13:45

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	*4.9*	0.1	0.50		ppbv	1	07/17/07 08:21
1,1,2,2-Tetrachloroethane	A	*ND*	0.15	0.50		ppbv	1	07/17/07 08:21
1,1,2-Trichloroethane	A	*ND*	0.15	0.50		ppbv	1	07/17/07 08:21
1,1-Dichloroethane	A	*1.4*	0.14	0.50		ppbv	1	07/17/07 08:21
1,1-Dichloroethene	A	*ND*	0.25	0.50		ppbv	1	07/17/07 08:21
1,2-Dichloroethane	A	*0.23*	0.12	0.50	J	ppbv	1	07/17/07 08:21
1,2-Dichloropropane	A	*ND*	0.22	0.50		ppbv	1	07/17/07 08:21
2-Butanone	A	*8.8*	0.46	2.0		ppbv	1	07/17/07 08:21
2-Hexanone	A	*1.2*	0.26	2.0	J	ppbv	1	07/17/07 08:21
4-Methyl-2-Pentanone	A	*2.6*	0.31	0.50		ppbv	1	07/17/07 08:21
Acetone	A	*29*	7.3	50	J	ppbv	25	07/17/07 07:40
Benzene	A	*8.4*	0.18	0.50		ppbv	1	07/17/07 08:21
Bromodichloromethane	A	*ND*	0.11	0.50		ppbv	1	07/17/07 08:21
Bromoform	A	*ND*	0.3	0.50		ppbv	1	07/17/07 08:21
Bromomethane	A	*ND*	0.16	0.50		ppbv	1	07/17/07 08:21
Carbon disulfide	A	*ND*	0.08	1.0		ppbv	1	07/17/07 08:21
Carbon tetrachloride	A	*ND*	0.08	0.50		ppbv	1	07/17/07 08:21
Chlorobenzene	A	*0.51*	0.11	0.50		ppbv	1	07/17/07 08:21
Chloroethane	A	*1.3*	0.3	0.50		ppbv	1	07/17/07 08:21
Chloroform	A	*1.3*	0.12	0.50		ppbv	1	07/17/07 08:21
Chloromethane	A	*0.52*	0.2	2.0	J	ppbv	1	07/17/07 08:21
cis-1,2-Dichloroethene	A	*16*	0.22	0.50		ppbv	1	07/17/07 08:21
cis-1,3-Dichloropropene	A	*ND*	0.18	0.50		ppbv	1	07/17/07 08:21
Dibromochloromethane	A	*ND*	0.12	0.50		ppbv	1	07/17/07 08:21
Ethyl benzene	A	*15*	0.12	0.50		ppbv	1	07/17/07 08:21
m,p-Xylene	A	*53*	1.8	12		ppbv	25	07/17/07 07:40
Methylene chloride	A	*3.9*	0.15	0.50	b	ppbv	1	07/17/07 08:21
o-Xylene	A	*39*	2	12		ppbv	25	07/17/07 07:40
Styrene	A	*0.50*	0.08	0.50		ppbv	1	07/17/07 08:21
Tetrachloroethene	A	*15*	0.17	0.50		ppbv	1	07/17/07 08:21
Toluene	A	*91*	2.5	12		ppbv	25	07/17/07 07:40
trans-1,2-Dichloroethene	A	*ND*	0.16	0.50		ppbv	1	07/17/07 08:21
trans-1,3-Dichloropropene	A	*ND*	0.18	0.50		ppbv	1	07/17/07 08:21
Trichloroethene	A	*11*	0.08	0.50		ppbv	1	07/17/07 08:21
Vinyl chloride	A	*4.2*	0.23	0.50		ppbv	1	07/17/07 08:21
Surr: 4-Bromofluorobenzene	S	96.7	0	70-130		%REC	1	07/17/07 08:21

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-06A
Collection Date: 07/11/07 11:30
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*0.93*	0.9	10	J	µg, Total	1	07/19/07 22:01	15
1,2-Dichlorobenzene	A	*25*	0.7	10		µg, Total	1	07/19/07 22:01	
1,3-Dichlorobenzene	A	*0.83*	0.8	10	J	µg, Total	1	07/19/07 22:01	15
1,4-Dichlorobenzene	A	*2.7*	0.9	10	J	µg, Total	1	07/19/07 22:01	15
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 22:01	
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:01	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:01	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 22:01	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:01	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 22:01	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:01	
2-Methylnaphthalene	A	*2.4*	0.9	10	J	µg, Total	1	07/19/07 22:01	15
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:01	
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 22:01	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 22:01	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 22:01	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 22:01	
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:01	
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 22:01	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 22:01	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 22:01	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 22:01	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 22:01	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 22:01	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
Bis(2-ethylhexyl)phthalate	A	*300*	5.5	50		µg, Total	5	07/20/07 04:01	
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	07/19/07 22:01	
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	07/19/07 22:01	
Di-n-octyl phthalate	A	*8.4*	1.1	10	Jb	µg, Total	1	07/19/07 22:01	15
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:01	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 22:01	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:01	
Hexachlorobutadiene	A	*2.6*	0.9	10	J	µg, Total	1	07/19/07 22:01	15
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 22:01	

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-06A
Collection Date: 07/11/07 11:30
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:01
Isophorone	A	***12***	1	10		µg, Total	1	07/19/07 22:01
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	07/19/07 22:01
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	07/19/07 22:01
Nitrobenzene	A	***ND***	1	10		µg, Total	1	07/19/07 22:01
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	07/19/07 22:01
Phenol	A	***ND***	0.4	10		µg, Total	1	07/19/07 22:01
Surr: 2,4,6-Tribromophenol	S	42.1	0	30-130		%REC	1	07/19/07 22:01
Surr: 2-Fluorobiphenyl	S	80.0	0	30-130		%REC	1	07/19/07 22:01
Surr: 2-Fluorophenol	S	93.5	0	30-130		%REC	1	07/19/07 22:01
Surr: Nitrobenzene-d5	S	79.2	0	30-130		%REC	1	07/19/07 22:01
Surr: Phenol-d5	S	85.8	0	30-130		%REC	1	07/19/07 22:01
Surr: Terphenyl-d14	S	111	0	30-130		%REC	1	07/19/07 22:01
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	07/20/07 01:25
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	07/20/07 01:25
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 01:25
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	07/20/07 01:25
Benzo[a]pyrene	A	***0.5***	0.38	1.0	Jb	µg, Total	1	07/20/07 01:25
Benzo[b]fluoranthene	A	***0.68***	0.44	1.0	Jb	µg, Total	1	07/20/07 01:25
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	07/20/07 01:25
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	07/20/07 01:25
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	07/20/07 01:25
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	07/20/07 01:25
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	07/20/07 01:25
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	07/20/07 01:25
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	07/20/07 01:25
Naphthalene	A	***14***	0.16	1.0		µg, Total	1	07/20/07 01:25
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	07/20/07 01:25
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	07/20/07 01:25
Surr: Nitrobenzene-d5	S	78.5	0	30-130		%REC	1	07/20/07 01:25
Surr: 2-Fluorobiphenyl	S	67.9	0	30-130		%REC	1	07/20/07 01:25
Surr: Terphenyl-d14	S	81.6	0	30-130		%REC	1	07/20/07 01:25

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-06B
Collection Date: 07/11/07 11:30
Date Received: 07/11/07 13:45

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*	150	750		ppbv	,50	07/17/07 09:01
1,1,2,2-Tetrachloroethane	A	*14*	9	30	J	ppbv	60	07/18/07 13:25
1,1,2-Trichloroethane	A	*160*	9	30		ppbv	60	07/18/07 13:25
1,1-Dichloroethane	A	*3200*	42	150		ppbv	300	07/17/07 09:40
1,1-Dichloroethene	A	*41*	15	30		ppbv	60	07/18/07 13:25
1,2-Dichloroethane	A	*510*	7.2	30		ppbv	60	07/18/07 13:25
1,2-Dichloropropane	A	*160*	13	30		ppbv	60	07/18/07 13:25
2-Butanone	A	*8600*	690	3000		ppbv	,50	07/17/07 09:01
2-Hexanone	A	*860*	78	600		ppbv	300	07/17/07 09:40
4-Methyl-2-Pentanone	A	*5100*	93	150		ppbv	300	07/17/07 09:40
Acetone	A	*11000*	440	3000		ppbv	,50	07/17/07 09:01
Benzene	A	*9900*	270	750		ppbv	,50	07/17/07 09:01
Bromodichloromethane	A	*64*	6.6	30		ppbv	60	07/18/07 13:25
Bromoform	A	*ND*	18	30		ppbv	60	07/18/07 13:25
Bromomethane	A	*ND*	9.6	30		ppbv	60	07/18/07 13:25
Carbon disulfide	A	*380*	4.8	60		ppbv	60	07/18/07 13:25
Carbon tetrachloride	A	*ND*	4.8	30		ppbv	60	07/18/07 13:25
Chlorobenzene	A	*ND*	6.6	30		ppbv	60	07/18/07 13:25
Chloroethane	A	*95*	18	30		ppbv	60	07/18/07 13:25
Chloroform	A	*1600*	36	150		ppbv	300	07/17/07 09:40
Chloromethane	A	*23*	12	120	J	ppbv	60	07/18/07 13:25
cis-1,2-Dichloroethene	A	*1900*	66	150		ppbv	300	07/17/07 09:40
cis-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/18/07 13:25
Dibromochloromethane	A	*ND*	7.2	30		ppbv	60	07/18/07 13:25
Ethyl benzene	A	*8000*	180	750		ppbv	,50	07/17/07 09:01
m,p-Xylene	A	*15000*	100	750		ppbv	,50	07/17/07 09:01
Methylene chloride	A	*17000*	220	750		ppbv	,50	07/17/07 09:01
o-Xylene	A	*12000*	120	750		ppbv	,50	07/17/07 09:01
Styrene	A	*180*	4.8	30		ppbv	60	07/18/07 13:25
Tetrachloroethene	A	*14000*	260	750		ppbv	,50	07/17/07 09:01
Toluene	A	*64000*	600	3000		ppbv	,00	07/21/07 09:07
trans-1,2-Dichloroethene	A	*29*	9.6	30	J	ppbv	60	07/18/07 13:25
trans-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/18/07 13:25
Trichloroethene	A	*15000*	120	750		ppbv	,50	07/17/07 09:01
Vinyl chloride	A	*130*	14	30		ppbv	60	07/18/07 13:25
Surr: 4-Bromofluorobenzene	S	101	0	70-130		%REC	60	07/18/07 13:25

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 INF DUP
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-07A
Collection Date: 07/11/07 12:07
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** 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	07/19/07 22:25	15
1,2-Dichlorobenzene	A	*26*	0.7	10		µg, Total	1	07/19/07 22:25	
1,3-Dichlorobenzene	A	*0.83*	0.8	10	J	µg, Total	1	07/19/07 22:25	15
1,4-Dichlorobenzene	A	*2.8*	0.9	10	J	µg, Total	1	07/19/07 22:25	15
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	07/19/07 22:25	
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:25	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:25	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	07/19/07 22:25	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:25	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	07/19/07 22:25	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:25	
2-Methylnaphthalene	A	*2.7*	0.9	10	J	µg, Total	1	07/19/07 22:25	15
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	07/19/07 22:25	
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	07/19/07 22:25	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	07/19/07 22:25	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	07/19/07 22:25	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	07/19/07 22:25	
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:25	
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	07/19/07 22:25	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	07/19/07 22:25	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	07/19/07 22:25	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	07/19/07 22:25	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	07/19/07 22:25	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	07/19/07 22:25	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
Bis(2-ethylhexyl)phthalate	A	*170*	2.2	20	b	µg, Total	2	07/20/07 04:26	7b
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	07/19/07 22:25	
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	07/19/07 22:25	
Di-n-octyl phthalate	A	*5.3*	1.1	10	Jb	µg, Total	1	07/19/07 22:25	15b
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	07/19/07 22:25	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	07/19/07 22:25	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	07/19/07 22:25	
Hexachlorobutadiene	A	*3*	0.9	10	J	µg, Total	1	07/19/07 22:25	15
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	07/19/07 22:25	

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 INF DUP
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-07A
Collection Date: 07/11/07 12:07
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	07/19/07 22:25
Isophorone	A	14	1	10		µg, Total	1	07/19/07 22:25
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	07/19/07 22:25
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	07/19/07 22:25
Nitrobenzene	A	ND	1	10		µg, Total	1	07/19/07 22:25
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	07/19/07 22:25
Phenol	A	ND	0.4	10		µg, Total	1	07/19/07 22:25
Surr: 2,4,6-Tribromophenol	S	36.7	0	30-130		%REC	1	07/19/07 22:25
Surr: 2-Fluorobiphenyl	S	76.7	0	30-130		%REC	1	07/19/07 22:25
Surr: 2-Fluorophenol	S	92.8	0	30-130		%REC	1	07/19/07 22:25
Surr: Nitrobenzene-d5	S	76.8	0	30-130		%REC	1	07/19/07 22:25
Surr: Phenol-d5	S	83.1	0	30-130		%REC	1	07/19/07 22:25
Surr: Terphenyl-d14	S	107	0	30-130		%REC	1	07/19/07 22:25
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	07/20/07 01:51
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	07/20/07 01:51
Anthracene	A	ND	0.27	1.0		µg, Total	1	07/20/07 01:51
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	07/20/07 01:51
Benzo[a]pyrene	A	0.56	0.38	1.0	Jb	µg, Total	1	07/20/07 01:51
Benzo[b]fluoranthene	A	0.69	0.44	1.0	Jb	µg, Total	1	07/20/07 01:51
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	07/20/07 01:51
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	07/20/07 01:51
Chrysene	A	ND	0.57	1.0		µg, Total	1	07/20/07 01:51
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	07/20/07 01:51
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	07/20/07 01:51
Fluorene	A	ND	0.25	1.0		µg, Total	1	07/20/07 01:51
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	07/20/07 01:51
Naphthalene	A	16	0.16	1.0		µg, Total	1	07/20/07 01:51
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	07/20/07 01:51
Pyrene	A	ND	0.44	1.0		µg, Total	1	07/20/07 01:51
Surr: Nitrobenzene-d5	S	78.0	0	30-130		%REC	1	07/20/07 01:51
Surr: 2-Fluorobiphenyl	S	67.2	0	30-130		%REC	1	07/20/07 01:51
Surr: Terphenyl-d14	S	80.3	0	30-130		%REC	1	07/20/07 01:51

150
150

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client:	MWH, Inc.		
Client Project:	July 2007 - Monthly Air / ACS		
Client Sample ID:	#7 TOX 2 INF DUP	**Work Order / ID:**	ME0707369-07B
Sample Description:		**Collection Date:**	07/11/07 12:07
Sample Matrix:	Air	**Date Received:**	07/11/07 13:45

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	*7800*	300	1500		ppbv	3,00	07/18/07 10:03	
1,1,2,2-Tetrachloroethane	A	*19*	9	30	J	ppbv	60	07/18/07 12:43	15
1,1,2-Trichloroethane	A	*160*	9	30		ppbv	60	07/18/07 12:43	
1,1-Dichloroethane	A	*2300*	42	150		ppbv	300	07/18/07 09:24	
1,1-Dichloroethene	A	*40*	15	30		ppbv	60	07/18/07 12:43	
1,2-Dichloroethane	A	*510*	7.2	30		ppbv	60	07/18/07 12:43	
1,2-Dichloropropane	A	*150*	13	30		ppbv	60	07/18/07 12:43	
2-Butanone	A	*4400*	1400	6000	J	ppbv	3,00	07/18/07 10:03	15
2-Hexanone	A	*820*	78	600		ppbv	300	07/18/07 09:24	
4-Methyl-2-Pentanone	A	*4100*	93	150		ppbv	300	07/18/07 09:24	
Acetone	A	*4600*	870	6000	J	ppbv	3,00	07/18/07 10:03	15
Benzene	A	*5700*	54	150		ppbv	300	07/18/07 09:24	
Bromodichloromethane	A	*62*	6.6	30		ppbv	60	07/18/07 12:43	
Bromoform	A	*ND*	18	30		ppbv	60	07/18/07 12:43	
Bromomethane	A	*9.6*	9.6	30	J	ppbv	60	07/18/07 12:43	15
Carbon disulfide	A	*310*	4.8	60		ppbv	60	07/18/07 12:43	
Carbon tetrachloride	A	*ND*	4.8	30		ppbv	60	07/18/07 12:43	1R
Chlorobenzene	A	*11*	6.6	30	J	ppbv	60	07/18/07 12:43	15
Chloroethane	A	*79*	18	30		ppbv	60	07/18/07 12:43	
Chloroform	A	*1300*	36	150		ppbv	300	07/18/07 09:24	
Chloromethane	A	*29*	12	120	J	ppbv	60	07/18/07 12:43	15
cis-1,2-Dichloroethene	A	*1400*	66	150		ppbv	300	07/18/07 09:24	
cis-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/18/07 12:43	
Dibromochloromethane	A	*ND*	7.2	30		ppbv	60	07/18/07 12:43	
Ethyl benzene	A	*4700*	360	1500		ppbv	3,00	07/18/07 10:03	
m,p-Xylene	A	*9700*	210	1500		ppbv	3,00	07/18/07 10:03	
Methylene chloride	A	*5900*	450	1500		ppbv	3,00	07/18/07 10:03	
o-Xylene	A	*7100*	240	1500		ppbv	3,00	07/18/07 10:03	
Styrene	A	*250*	4.8	30		ppbv	60	07/18/07 12:43	
Tetrachloroethene	A	*7700*	510	1500		ppbv	3,00	07/18/07 10:03	
Toluene	A	*38000*	300	1500		ppbv	3,00	07/18/07 10:03	
trans-1,2-Dichloroethene	A	*28*	9.6	30	J	ppbv	60	07/18/07 12:43	15
trans-1,3-Dichloropropene	A	*ND*	11	30		ppbv	60	07/18/07 12:43	
Trichloroethene	A	*7000*	240	1500		ppbv	3,00	07/18/07 10:03	
Vinyl chloride	A	*140*	14	30		ppbv	60	07/18/07 12:43	
Surr: 4-Bromofluorobenzene	S	104	0	70-130		%REC	60	07/18/07 12:43	

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-08A
Collection Date: 07/11/07 11:45
Date Received: 07/11/07 13:45

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **07/18/07 14:15** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
1,2-Dichlorobenzene	A	***1.3***	0.7	10	J	µg, Total	1	07/19/07 22:49
1,3-Dichlorobenzene	A	***ND***	0.8	10		µg, Total	1	07/19/07 22:49
1,4-Dichlorobenzene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg, Total	1	07/19/07 22:49
2,4,6-Trichlorophenol	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
2,4-Dichlorophenol	A	***ND***	0.7	10		µg, Total	1	07/19/07 22:49
2,4-Dimethylphenol	A	***ND***	0.8	10		µg, Total	1	07/19/07 22:49
2,4-Dinitrophenol	A	***ND***	9.4	50		µg, Total	1	07/19/07 22:49
2,4-Dinitrotoluene	A	***ND***	0.8	10		µg, Total	1	07/19/07 22:49
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg, Total	1	07/19/07 22:49
2-Chloronaphthalene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
2-Chlorophenol	A	***ND***	0.7	10		µg, Total	1	07/19/07 22:49
2-Methylnaphthalene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
2-Methylphenol	A	***ND***	0.7	10		µg, Total	1	07/19/07 22:49
2-Nitroaniline	A	***ND***	1	50		µg, Total	1	07/19/07 22:49
2-Nitrophenol	A	***ND***	1	10		µg, Total	1	07/19/07 22:49
3,3´-Dichlorobenzidine	A	***ND***	0.7	50		µg, Total	1	07/19/07 22:49
3-Nitroaniline	A	***ND***	1.3	50		µg, Total	1	07/19/07 22:49
3/4-Methylphenol	A	***ND***	0.8	10		µg, Total	1	07/19/07 22:49
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	50		µg, Total	1	07/19/07 22:49
4-Bromophenyl phenyl ether	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg, Total	1	07/19/07 22:49
4-Chloroaniline	A	***ND***	1	20		µg, Total	1	07/19/07 22:49
4-Chlorophenyl phenyl ether	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
4-Nitroaniline	A	***ND***	1.7	50		µg, Total	1	07/19/07 22:49
4-Nitrophenol	A	***ND***	4.3	50		µg, Total	1	07/19/07 22:49
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg, Total	1	07/19/07 22:49
Bis(2-chloroethyl)ether	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
Bis(2-ethylhexyl)phthalate	A	***23***	1.1	10	b	µg, Total	1	07/19/07 22:49
Butyl benzyl phthalate	A	***1.5***	1	10	Jb	µg, Total	1	07/19/07 22:49
Di-n-butyl phthalate	A	***ND***	1.2	10		µg, Total	1	07/19/07 22:49
Di-n-octyl phthalate	A	***1.6***	1.1	10	Jb	µg, Total	1	07/19/07 22:49
Dibenzofuran	A	***ND***	0.8	10		µg, Total	1	07/19/07 22:49
Diethyl phthalate	A	***ND***	1.1	10		µg, Total	1	07/19/07 22:49
Dimethyl phthalate	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
Hexachlorobenzene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
Hexachlorobutadiene	A	***ND***	0.9	10		µg, Total	1	07/19/07 22:49
Hexachlorocyclopentadiene	A	***ND***	0.6	10		µg, Total	1	07/19/07 22:49

15

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170

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12/10/07

ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client: MWH, Inc.
Client Project: July 2007 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0707369-08A
Collection Date: 07/11/07 11:45
Date Received: 07/11/07 13:45

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	07/19/07 22:49
Isophorone	A	ND	1	10		µg, Total	1	07/19/07 22:49
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	07/19/07 22:49
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	07/19/07 22:49
Nitrobenzene	A	ND	1	10		µg, Total	1	07/19/07 22:49
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	07/19/07 22:49
Phenol	A	ND	0.4	10		µg, Total	1	07/19/07 22:49
Surr: 2,4,6-Tribromophenol	S	48.1	0	30-130		%REC	1	07/19/07 22:49
Surr: 2-Fluorobiphenyl	S	80.6	0	30-130		%REC	1	07/19/07 22:49
Surr: 2-Fluorophenol	S	90.0	0	30-130		%REC	1	07/19/07 22:49
Surr: Nitrobenzene-d5	S	79.5	0	30-130		%REC	1	07/19/07 22:49
Surr: Phenol-d5	S	90.7	0	30-130		%REC	1	07/19/07 22:49
Surr: Terphenyl-d14	S	108	0	30-130		%REC	1	07/19/07 22:49
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **07/18/07 14:15**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	07/20/07 02:17
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	07/20/07 02:17
Anthracene	A	ND	0.27	1.0		µg, Total	1	07/20/07 02:17
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	07/20/07 02:17
Benzo[a]pyrene	A	*0.4*	0.38	1.0	Jb	µg, Total	1	07/20/07 02:17
Benzo[b]fluoranthene	A	*0.56*	0.44	1.0	Jb	µg, Total	1	07/20/07 02:17
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	07/20/07 02:17
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	07/20/07 02:17
Chrysene	A	ND	0.57	1.0		µg, Total	1	07/20/07 02:17
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	07/20/07 02:17
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	07/20/07 02:17
Fluorene	A	ND	0.25	1.0		µg, Total	1	07/20/07 02:17
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	07/20/07 02:17
Naphthalene	A	*1.8*	0.16	1.0		µg, Total	1	07/20/07 02:17
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	07/20/07 02:17
Pyrene	A	ND	0.44	1.0		µg, Total	1	07/20/07 02:17
Surr: Nitrobenzene-d5	S	89.4	0	30-130		%REC	1	07/20/07 02:17
Surr: 2-Fluorobiphenyl	S	54.5	0	30-130		%REC	1	07/20/07 02:17
Surr: Terphenyl-d14	S	79.6	0	30-130		%REC	1	07/20/07 02:17

Jb
Jb

OK 12/10/07

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ANALYTICAL RESULTS

Date: *Tuesday, July 31, 2007*

Client:	MWH, Inc.		
Client Project:	July 2007 - Monthly Air / ACS		
Client Sample ID:	#8 TOX 2 EFF	**Work Order / ID:**	ME0707369-08B
Sample Description:		**Collection Date:**	07/11/07 11:45
Sample Matrix:	Air	**Date Received:**	07/11/07 13:45

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	*520*	15	75		ppbv	150	07/21/07 09:47	
1,1,2,2-Tetrachloroethane	A	*0.95*	0.75	2.5	J	ppbv	5	07/21/07 10:58	15
1,1,2-Trichloroethane	A	*5.8*	0.75	2.5		ppbv	5	07/21/07 10:58	
1,1-Dichloroethane	A	*90*	0.7	2.5		ppbv	5	07/21/07 10:58	
1,1-Dichloroethene	A	*160*	38	75		ppbv	150	07/23/07 14:32	
1,2-Dichloroethane	A	*24*	0.6	2.5		ppbv	5	07/21/07 10:58	
1,2-Dichloropropane	A	*6.5*	1.1	2.5		ppbv	5	07/21/07 10:58	
2-Butanone	A	*200*	69	300	J	ppbv	150	07/21/07 09:47	15
2-Hexanone	A	*13*	1.3	10		ppbv	5	07/21/07 10:58	
4-Methyl-2-Pentanone	A	*93*	1.6	2.5		ppbv	5	07/21/07 10:58	
Acetone	A	*410*	44	300		ppbv	150	07/21/07 09:47	
Benzene	A	*410*	27	75		ppbv	150	07/21/07 09:47	
Bromodichloromethane	A	*3.8*	0.55	2.5		ppbv	5	07/21/07 10:58	
Bromoform	A	*ND*	1.5	2.5		ppbv	5	07/21/07 10:58	
Bromomethane	A	*ND*	0.8	2.5		ppbv	5	07/21/07 10:58	
Carbon disulfide	A	*0.6*	0.4	5.0	J	ppbv	5	07/21/07 10:58	15
Carbon tetrachloride	A	*1*	0.4	2.5	J	ppbv	5	07/21/07 10:58	151
Chlorobenzene	A	*7.0*	0.55	2.5		ppbv	5	07/21/07 10:58	
Chloroethane	A	*2.4*	1.5	2.5	J	ppbv	5	07/21/07 10:58	15
Chloroform	A	*80*	0.6	2.5		ppbv	5	07/21/07 10:58	
Chloromethane	A	*7.8*	1	10	J	ppbv	5	07/21/07 10:58	15
cis-1,2-Dichloroethene	A	*96*	33	75		ppbv	150	07/21/07 09:47	
cis-1,3-Dichloropropene	A	*ND*	0.9	2.5		ppbv	5	07/21/07 10:58	
Dibromochloromethane	A	*ND*	0.6	2.5		ppbv	5	07/21/07 10:58	
Ethyl benzene	A	*280*	18	75		ppbv	150	07/21/07 09:47	
m,p-Xylene	A	*520*	10	75		ppbv	150	07/21/07 09:47	
Methylene chloride	A	*390*	22	75		ppbv	150	07/21/07 09:47	
o-Xylene	A	*450*	12	75		ppbv	150	07/21/07 09:47	
Styrene	A	*70*	12	75	J	ppbv	150	07/21/07 09:47	15
Tetrachloroethene	A	*720*	26	75		ppbv	150	07/21/07 09:47	
Toluene	A	*1700*	15	75		ppbv	150	07/21/07 09:47	
trans-1,2-Dichloroethene	A	*6.4*	0.8	2.5		ppbv	5	07/21/07 10:58	
trans-1,3-Dichloropropene	A	*ND*	0.9	2.5		ppbv	5	07/21/07 10:58	
Trichloroethene	A	*540*	12	75		ppbv	150	07/21/07 09:47	
Vinyl chloride	A	*25*	1.2	2.5		ppbv	5	07/21/07 10:58	
Surr: 4-Bromofluorobenzene	S	115	0	70-130		%REC	5	07/21/07 10:58	

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August 10, 2007 Off-Gas Sample Laboratory Results

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Offsite ISVE

Lab ID#: 0709063R1-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name: 7090815r1 Date of Collection: 8/10/07
Dil. Factor: 1750 Date of Analysis: 9/8/07 09:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	880	Not Detected	2200	Not Detected
Bromomethane	880	Not Detected	3400	Not Detected
Chloroethane	880	Not Detected	2300	Not Detected
1,1-Dichloroethene	880	1400	3500	5600
Methylene Chloride	880	69000	3000	240000
1,1-Dichloroethane	880	9100	3500	37000
cis-1,2-Dichloroethene	880	3000	3500	12000
Chloroform	880	4000	4300	19000
1,1,1-Trichloroethane	880	60000	4800	330000
Carbon Tetrachloride	880	Not Detected	5500	Not Detected
Benzene	880	18000	2800	58000
1,2-Dichloroethane	880	1200	3500	4700
Trichloroethene	880	37000	4700	200000
1,2-Dichloropropane	880	Not Detected	4000	Not Detected
cis-1,3-Dichloropropene	880	Not Detected	4000	Not Detected
Toluene	880	350000 E	3300	1300000 E
trans-1,3-Dichloropropene	880	Not Detected	4000	Not Detected
1,1,2-Trichloroethane	880	Not Detected	4800	Not Detected
Tetrachloroethene	880	34000	5900	230000
Chlorobenzene	880	Not Detected	4000	Not Detected
Ethyl Benzene	880	34000	3800	140000
m,p-Xylene	880	120000	3800	500000
o-Xylene	880	39000	3800	170000
Styrene	880	Not Detected	3700	Not Detected
1,1,2,2-Tetrachloroethane	880	Not Detected	6000	Not Detected
Bromodichloromethane	880	Not Detected	5900	Not Detected
Dibromochloromethane	880	Not Detected	7400	Not Detected
Chloromethane	3500	Not Detected	7200	Not Detected
Acetone	3500	73000	8300	170000
Carbon Disulfide	3500	Not Detected	11000	Not Detected
trans-1,2-Dichloroethene	3500	Not Detected	14000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3500	110000	10000	330000
4-Methyl-2-pentanone	3500	44000	14000	180000
2-Hexanone	3500	Not Detected	14000	Not Detected
Bromoform	3500	Not Detected	36000	Not Detected

E = Exceeds instrument calibration range.

Container Type: Client Canister

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Offsite ISVE

Lab ID#: 0709063R1-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090815r1	Date of Collection:	8/10/07
Dil. Factor:	1750	Date of Analysis:	9/8/07 09:16 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130

CMS
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SBPA ISVE

Lab ID#: 0709063R1-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name: 7090909r1 Date of Collection: 8/10/07
Dil. Factor: 96.0 Date of Analysis: 9/9/07 08:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	48	370	120	940
Bromomethane	48	Not Detected	190	Not Detected
Chloroethane	48	Not Detected	130	Not Detected
1,1-Dichloroethene	48	140	190	560
Methylene Chloride	48	1400	170	4700
1,1-Dichloroethane	48	720	190	2900
cis-1,2-Dichloroethene	48	5200	190	21000
Chloroform	48	1600	230	7700
1,1,1-Trichloroethane	48	6700	260	37000
Carbon Tetrachloride	48	Not Detected	300	Not Detected
Benzene	48	1000	150	3400
1,2-Dichloroethane	48	82	190	330
Trichloroethene	48	3700	260	20000
1,2-Dichloropropane	48	82	220	380
cis-1,3-Dichloropropene	48	Not Detected	220	Not Detected
Toluene	48	11000	180	42000
trans-1,3-Dichloropropene	48	Not Detected	220	Not Detected
1,1,2-Trichloroethane	48	Not Detected	260	Not Detected
Tetrachloroethene	48	8900	320	61000
Chlorobenzene	48	Not Detected	220	Not Detected
Ethyl Benzene	48	2900	210	12000
m,p-Xylene	48	11000	210	48000
o-Xylene	48	5000	210	22000
Styrene	48	Not Detected	200	Not Detected
1,1,2,2-Tetrachloroethane	48	Not Detected	330	Not Detected
Bromodichloromethane	48	Not Detected	320	Not Detected
Dibromochloromethane	48	Not Detected	410	Not Detected
Chloromethane	190	Not Detected	400	Not Detected
Acetone	190	250	460	590
Carbon Disulfide	190	Not Detected	600	Not Detected
trans-1,2-Dichloroethene	190	Not Detected	760	Not Detected
2-Butanone (Methyl Ethyl Ketone)	190	470	570	1400
4-Methyl-2-pentanone	190	210	790	860
2-Hexanone	190	Not Detected	790	Not Detected
Bromoform	190	Not Detected	2000	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

OMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SBPA ISVE

Lab ID#: 0709063R1-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090909r1	Date of Collection:	8/10/07
Dil. Factor:	96.0	Date of Analysis:	9/9/07 08:22 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	107	70-130

ORS
12/11/07

Air Toxics Ltd.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Inf.

Lab ID#: 0709063R1-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090911r1	Date of Collection:	8/10/07
Dil. Factor:	88.6	Date of Analysis:	9/9/07 09:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	44	350	110	890
Bromomethane	44	Not Detected	170	Not Detected
Chloroethane	44	Not Detected	120	Not Detected
1,1-Dichloroethene	44	120	180	500
Methylene Chloride	44	1300	150	4600
1,1-Dichloroethane	44	700	180	2800
cis-1,2-Dichloroethene	44	5200	180	21000
Chloroform	44	1500	220	7400
1,1,1-Trichloroethane	44	6300	240	34000
Carbon Tetrachloride	44	Not Detected	280	Not Detected
Benzene	44	1000	140	3300
1,2-Dichloroethane	44	79	180	320
Trichloroethene	44	3700	240	20000
1,2-Dichloropropane	44	84	200	390
cis-1,3-Dichloropropene	44	Not Detected	200	Not Detected
Toluene	44	11000	170	42000
trans-1,3-Dichloropropene	44	Not Detected	200	Not Detected
1,1,2-Trichloroethane	44	Not Detected	240	Not Detected
Tetrachloroethene	44	8600	300	58000
Chlorobenzene	44	Not Detected	200	Not Detected
Ethyl Benzene	44	2900	190	13000
m,p-Xylene	44	11000	190	49000
o-Xylene	44	5200	190	22000
Styrene	44	Not Detected	190	Not Detected
1,1,2,2-Tetrachloroethane	44	Not Detected	300	Not Detected
Bromodichloromethane	44	Not Detected	300	Not Detected
Dibromochloromethane	44	Not Detected	380	Not Detected
Chloromethane	180	Not Detected	360	Not Detected
Acetone	180	680	420	1600
Carbon Disulfide	180	Not Detected	550	Not Detected
trans-1,2-Dichloroethene	180	Not Detected	700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	180	960	520	2800
4-Methyl-2-pentanone	180	280	720	1100
2-Hexanone	180	Not Detected	720	Not Detected
Bromoform	180	Not Detected	1800	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

OMS 10/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Inf.

Lab ID#: 0709063R1-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090911r1	Date of Collection:	8/10/07
Dil. Factor:	88.6	Date of Analysis:	9/9/07 09:40 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	105	70-130

OMS
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Inf (Dup)

Lab ID#: 0709063R1-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090913r1	Date of Collection:	8/10/07
Dil. Factor:	94.0	Date of Analysis:	9/9/07 11:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	47	340	120	880
Bromomethane	47	Not Detected	180	Not Detected
Chloroethane	47	Not Detected	120	Not Detected
1,1-Dichloroethene	47	100	190	410
Methylene Chloride	47	1400	160	4700
1,1-Dichloroethane	47	710	190	2900
cis-1,2-Dichloroethene	47	5300	190	21000
Chloroform	47	1500	230	7500
1,1,1-Trichloroethane	47	6400	260	35000
Carbon Tetrachloride	47	Not Detected	300	Not Detected
Benzene	47	1100	150	3500
1,2-Dichloroethane	47	81	190	330
Trichloroethene	47	3700	250	20000
1,2-Dichloropropane	47	87	220	400
cis-1,3-Dichloropropene	47	Not Detected	210	Not Detected
Toluene	47	12000	180	44000
trans-1,3-Dichloropropene	47	Not Detected	210	Not Detected
1,1,2-Trichloroethane	47	Not Detected	260	Not Detected
Tetrachloroethene	47	9300	320	63000
Chlorobenzene	47	Not Detected	220	Not Detected
Ethyl Benzene	47	3300	200	14000
m,p-Xylene	47	13000	200	55000
o-Xylene	47	6000	200	26000
Styrene	47	Not Detected	200	Not Detected
1,1,2,2-Tetrachloroethane	47	Not Detected	320	Not Detected
Bromodichloromethane	47	Not Detected	310	Not Detected
Dibromochloromethane	47	Not Detected	400	Not Detected
Chloromethane	190	Not Detected	390	Not Detected
Acetone	190	290	450	690
Carbon Disulfide	190	Not Detected	580	Not Detected
trans-1,2-Dichloroethene	190	Not Detected	740	Not Detected
2-Butanone (Methyl Ethyl Ketone)	190	490	550	1400
4-Methyl-2-pentanone	190	220	770	910
2-Hexanone	190	Not Detected	770	Not Detected
Bromoform	190	Not Detected	1900	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

CMB 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Inf (Dup)

Lab ID#: 0709063R1-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090913r1	Date of Collection:	8/10/07
Dil. Factor:	94.0	Date of Analysis:	9/9/07 11:03 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	102	70-130

QMS
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Eff.

Lab ID#: 0709063R1-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090910r1	Date of Collection:	8/10/07
Dil. Factor:	5.96	Date of Analysis:	9/9/07 09:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	3.0	Not Detected	7.6	Not Detected
Bromomethane	3.0	Not Detected	12	Not Detected
Chloroethane	3.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	3.0	Not Detected	12	Not Detected
Methylene Chloride	3.0	9.2	10	32
1,1-Dichloroethane	3.0	3.6	12	14
cis-1,2-Dichloroethene	3.0	50	12	200
Chloroform	3.0	13	14	64
1,1,1-Trichloroethane	3.0	32	16	180
Carbon Tetrachloride	3.0	Not Detected	19	Not Detected
Benzene	3.0	12	9.5	40
1,2-Dichloroethane	3.0	Not Detected	12	Not Detected
Trichloroethene	3.0	63	16	340
1,2-Dichloropropane	3.0	Not Detected	14	Not Detected
cis-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
Toluene	3.0	380	11	1400
trans-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
1,1,2-Trichloroethane	3.0	Not Detected	16	Not Detected
Tetrachloroethene	3.0	290	20	2000
Chlorobenzene	3.0	Not Detected	14	Not Detected
Ethyl Benzene	3.0	190	13	810
m,p-Xylene	3.0	870	13	3800
o-Xylene	3.0	470	13	2000
Styrene	3.0	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	3.0	Not Detected	20	Not Detected
Bromodichloromethane	3.0	Not Detected	20	Not Detected
Dibromochloromethane	3.0	Not Detected	25	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Acetone	12	44	28	100
Carbon Disulfide	12	Not Detected	37	Not Detected
trans-1,2-Dichloroethene	12	Not Detected	47	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	29	35	85
4-Methyl-2-pentanone	12	Not Detected	49	Not Detected
2-Hexanone	12	Not Detected	49	Not Detected
Bromoform	12	Not Detected	120	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

CMS 12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 1 Eff.

Lab ID#: 0709063R1-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090910r1	Date of Collection:	8/10/07
Dil. Factor:	5.96	Date of Analysis:	9/9/07 09:01 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	112	70-130

OAS
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Inf.

Lab ID#: 0709063R1-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090907r1	Date of Collection:	8/10/07
Dil. Factor:	2100	Date of Analysis:	9/9/07 07:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1000	Not Detected	2700	Not Detected
Bromomethane	1000	Not Detected	4100	Not Detected
Chloroethane	1000	Not Detected	2800	Not Detected
1,1-Dichloroethene	1000	1400	4200	5400
Methylene Chloride	1000	59000	3600	200000
1,1-Dichloroethane	1000	7800	4200	31000
cis-1,2-Dichloroethene	1000	2600	4200	10000
Chloroform	1000	3400	5100	17000
1,1,1-Trichloroethane	1000	51000	5700	280000
Carbon Tetrachloride	1000	Not Detected	6600	Not Detected
Benzene	1000	16000	3400	51000
1,2-Dichloroethane	1000	1100	4200	4300
Trichloroethene	1000	32000	5600	170000
1,2-Dichloropropane	1000	Not Detected	4800	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4800	Not Detected
Toluene	1000	310000	4000	1200000
trans-1,3-Dichloropropene	1000	Not Detected	4800	Not Detected
1,1,2-Trichloroethane	1000	Not Detected	5700	Not Detected
Tetrachloroethene	1000	30000	7100	200000
Chlorobenzene	1000	Not Detected	4800	Not Detected
Ethyl Benzene	1000	28000	4600	120000
m,p-Xylene	1000	97000	4600	420000
o-Xylene	1000	33000	4600	140000
Styrene	1000	1500	4500	6200
1,1,2,2-Tetrachloroethane	1000	Not Detected	7200	Not Detected
Bromodichloromethane	1000	Not Detected	7000	Not Detected
Dibromochloromethane	1000	Not Detected	8900	Not Detected
Chloromethane	4200	Not Detected	8700	Not Detected
Acetone	4200	52000	10000	120000
Carbon Disulfide	4200	Not Detected	13000	Not Detected
trans-1,2-Dichloroethene	4200	Not Detected	17000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4200	90000	12000	260000
4-Methyl-2-pentanone	4200	37000	17000	150000
2-Hexanone	4200	Not Detected	17000	Not Detected
Bromoform	4200	Not Detected	43000	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Inf.

Lab ID#: 0709063R1-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090907r1	Date of Collection:	8/10/07
Dil. Factor:	2100	Date of Analysis:	9/9/07 07:01 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	108	70-130

OWS 12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Inf (Dup)

Lab ID#: 0709063R1-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090908r1	Date of Collection:	8/10/07
Dil. Factor:	1990	Date of Analysis:	9/9/07 07:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1000	Not Detected	2500	Not Detected
Bromomethane	1000	Not Detected	3900	Not Detected
Chloroethane	1000	Not Detected	2600	Not Detected
1,1-Dichloroethene	1000	1300	3900	5300
Methylene Chloride	1000	62000	3400	210000
1,1-Dichloroethane	1000	8200	4000	33000
cis-1,2-Dichloroethene	1000	2700	3900	11000
Chloroform	1000	3600	4800	18000
1,1,1-Trichloroethane	1000	55000	5400	300000
Carbon Tetrachloride	1000	Not Detected	6300	Not Detected
Benzene	1000	16000	3200	52000
1,2-Dichloroethane	1000	1000	4000	4100
Trichloroethene	1000	32000	5300	170000
1,2-Dichloropropane	1000	Not Detected	4600	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected
Toluene	1000	300000	3700	1100000
trans-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected
1,1,2-Trichloroethane	1000	Not Detected	5400	Not Detected
Tetrachloroethene	1000	29000	6700	200000
Chlorobenzene	1000	Not Detected	4600	Not Detected
Ethyl Benzene	1000	24000	4300	100000
m,p-Xylene	1000	79000	4300	340000
o-Xylene	1000	26000	4300	110000
Styrene	1000	Not Detected	4200	Not Detected
1,1,2,2-Tetrachloroethane	1000	Not Detected	6800	Not Detected
Bromodichloromethane	1000	Not Detected	6700	Not Detected
Dibromochloromethane	1000	Not Detected	8500	Not Detected
Chloromethane	4000	Not Detected	8200	Not Detected
Acetone	4000	67000	9400	160000
Carbon Disulfide	4000	Not Detected	12000	Not Detected
trans-1,2-Dichloroethene	4000	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4000	98000	12000	290000
4-Methyl-2-pentanone	4000	36000	16000	140000
2-Hexanone	4000	Not Detected	16000	Not Detected
Bromoform	4000	Not Detected	41000	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Inf (Dup)

Lab ID#: 0709063R1-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090908r1	Date of Collection:	8/10/07
Dil. Factor:	1990	Date of Analysis:	9/9/07 07:40 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	105	70-130

CMS
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Eff.

Lab ID#: 0709063R1-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090912r1	Date of Collection:	8/10/07
Dil. Factor:	94.0	Date of Analysis:	9/9/07 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	47	84	120	210
Bromomethane	47	Not Detected	180	Not Detected
Chloroethane	47	Not Detected	120	Not Detected
1,1-Dichloroethene	47	490	190	1900
Methylene Chloride	47	2600	160	9200
1,1-Dichloroethane	47	290	190	1200
cis-1,2-Dichloroethene	47	160	190	620
Chloroform	47	140	230	670
1,1,1-Trichloroethane	47	1600	260	9000
Carbon Tetrachloride	47	Not Detected	300	Not Detected
Benzene	47	960	150	3000
1,2-Dichloroethane	47	Not Detected	190	Not Detected
Trichloroethene	47	1400	250	7600
1,2-Dichloropropane	47	Not Detected	220	Not Detected
cis-1,3-Dichloropropene	47	Not Detected	210	Not Detected
Toluene	47	13000	180	49000
trans-1,3-Dichloropropene	47	Not Detected	210	Not Detected
1,1,2-Trichloroethane	47	Not Detected	260	Not Detected
Tetrachloroethene	47	1400	320	9800
Chlorobenzene	47	Not Detected	220	Not Detected
Ethyl Benzene	47	1100	200	4900
m,p-Xylene	47	3800	200	17000
o-Xylene	47	1300	200	5800
Styrene	47	150	200	650
1,1,2,2-Tetrachloroethane	47	Not Detected	320	Not Detected
Bromodichloromethane	47	Not Detected	310	Not Detected
Dibromochloromethane	47	Not Detected	400	Not Detected
Chloromethane	190	Not Detected	390	Not Detected
Acetone	190	2000	450	4700
Carbon Disulfide	190	Not Detected	580	Not Detected
trans-1,2-Dichloroethene	190	Not Detected	740	Not Detected
2-Butanone (Methyl Ethyl Ketone)	190	3200	550	9600
4-Methyl-2-pentanone	190	1100	770	4500
2-Hexanone	190	Not Detected	770	Not Detected
Bromoform	190	Not Detected	1900	Not Detected

Container Type: Client Canister

Surrogates	%Recovery	Method Limits

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TOX 2 Eff.

Lab ID#: 0709063R1-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	7090912r1	Date of Collection:	8/10/07
Dil. Factor:	94.0	Date of Analysis:	9/9/07 10:18 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130

CMS
12/11/07

Microbac

ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-01A
Collection Date: 08/10/07 13:14
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*6.4*	0.9	10	J	µg, Total	1	08/20/07 20:49
1,2-Dichlorobenzene	A	*34*	0.7	10		µg, Total	1	08/20/07 20:49
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	08/20/07 20:49
1,4-Dichlorobenzene	A	*4.2*	0.9	10	J	µg, Total	1	08/20/07 20:49
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 20:49
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 20:49
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 20:49
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 20:49
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 20:49
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 20:49
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 20:49
2-Methylnaphthalene	A	*12*	0.9	10		µg, Total	1	08/20/07 20:49
2-Methylphenol	A	*3.4*	0.7	10	J	µg, Total	1	08/20/07 20:49
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 20:49
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 20:49
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 20:49
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 20:49
3/4-Methylphenol	A	*4.2*	0.8	10	J	µg, Total	1	08/20/07 20:49
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 20:49
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 20:49
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 20:49
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 20:49
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 20:49
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 20:49
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
Bis(2-ethylhexyl)phthalate	A	*16*	1.1	10	b	µg, Total	1	08/20/07 20:49
Butyl benzyl phthalate	A	*1.4*	1	10	J	µg, Total	1	08/20/07 20:49
Di-n-butyl phthalate	A	*2.9*	1.2	10	J	µg, Total	1	08/20/07 20:49
Di-n-octyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 20:49
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 20:49
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 20:49
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 20:49
Hexachlorobutadiene	A	*11*	0.9	10		µg, Total	1	08/20/07 20:49
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 20:49

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-01A
Collection Date: 08/10/07 13:14
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	08/20/07 20:49
Isophorone	A	69	1	10		µg, Total	1	08/20/07 20:49
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	08/20/07 20:49
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	08/20/07 20:49
Nitrobenzene	A	ND	1	10		µg, Total	1	08/20/07 20:49
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	08/20/07 20:49
Phenol	A	ND	0.4	10		µg, Total	1	08/20/07 20:49
Surr: 2,4,6-Tribromophenol	S	88.7	0	30-130		%REC	1	08/20/07 20:49
Surr: 2-Fluorobiphenyl	S	62.8	0	30-130		%REC	1	08/20/07 20:49
Surr: 2-Fluorophenol	S	21.7	0	30-130	S	%REC	1	08/20/07 20:49 ok
Surr: Nitrobenzene-d5	S	66.3	0	30-130		%REC	1	08/20/07 20:49
Surr: Phenol-d5	S	75.2	0	30-130		%REC	1	08/20/07 20:49
Surr: Terphenyl-d14	S	95.7	0	30-130		%REC	1	08/20/07 20:49
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	08/20/07 20:12
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	08/20/07 20:12
Anthracene	A	ND	0.27	1.0		µg, Total	1	08/20/07 20:12
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	08/20/07 20:12
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	08/20/07 20:12
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	08/20/07 20:12
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	08/20/07 20:12
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	08/20/07 20:12
Chrysene	A	ND	0.57	1.0		µg, Total	1	08/20/07 20:12
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	08/20/07 20:12
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	08/20/07 20:12
Fluorene	A	ND	0.25	1.0		µg, Total	1	08/20/07 20:12
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	08/20/07 20:12
Naphthalene	A	100	0.64	4.0		µg, Total	4	08/20/07 22:17
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	08/20/07 20:12
Pyrene	A	ND	0.44	1.0		µg, Total	1	08/20/07 20:12
Surr: Nitrobenzene-d5	S	104	0	30-130		%REC	1	08/20/07 20:12
Surr: 2-Fluorobiphenyl	S	59.6	0	30-130		%REC	1	08/20/07 20:12
Surr: Terphenyl-d14	S	95.2	0	30-130		%REC	1	08/20/07 20:12

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-02A
Collection Date: 08/10/07 13:16
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*2.9*	0.9	10	J	µg, Total	1	08/20/07 21:15
1,2-Dichlorobenzene	A	*8*	0.7	10	J	µg, Total	1	08/20/07 21:15
1,3-Dichlorobenzene	A	*1*	0.8	10	J	µg, Total	1	08/20/07 21:15
1,4-Dichlorobenzene	A	*2.8*	0.9	10	J	µg, Total	1	08/20/07 21:15
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 21:15
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:15
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:15
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 21:15
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:15
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:15
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:15
2-Methylnaphthalene	A	*1.7*	0.9	10	J	µg, Total	1	08/20/07 21:15
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:15
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 21:15
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 21:15
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 21:15
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 21:15
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:15
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 21:15
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 21:15
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 21:15
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 21:15
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 21:15
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 21:15
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
Bis(2-ethylhexyl)phthalate	A	*5.3*	1.1	10	Jb	µg, Total	1	08/20/07 21:15
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	08/20/07 21:15
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	08/20/07 21:15
Di-n-octyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:15
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:15
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:15
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:15
Hexachlorobutadiene	A	*4*	0.9	10	J	µg, Total	1	08/20/07 21:15
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 21:15

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-02A
Collection Date: 08/10/07 13:16
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	08/20/07 21:15
Isophorone	A	***2.8***	1	10	J	µg, Total	1	08/20/07 21:15
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	08/20/07 21:15
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	08/20/07 21:15
Nitrobenzene	A	***ND***	1	10		µg, Total	1	08/20/07 21:15
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	08/20/07 21:15
Phenol	A	***ND***	0.4	10		µg, Total	1	08/20/07 21:15
Surr: 2,4,6-Tribromophenol	S	18.9	0	30-130	SI	%REC	1	08/20/07 21:15
Surr: 2-Fluorobiphenyl	S	75.8	0	30-130		%REC	1	08/20/07 21:15
Surr: 2-Fluorophenol	S	10.9	0	30-130	SI	%REC	1	08/20/07 21:15
Surr: Nitrobenzene-d5	S	68.1	0	30-130		%REC	1	08/20/07 21:15
Surr: Phenol-d5	S	83.6	0	30-130		%REC	1	08/20/07 21:15
Surr: Terphenyl-d14	S	119	0	30-130		%REC	1	08/20/07 21:15
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	***0.21***	0.21	1.0	J	µg, Total	1	08/20/07 20:37
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	08/20/07 20:37
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:37
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	08/20/07 20:37
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	08/20/07 20:37
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:37
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	08/20/07 20:37
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	08/20/07 20:37
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	08/20/07 20:37
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	08/20/07 20:37
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	08/20/07 20:37
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	08/20/07 20:37
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	08/20/07 20:37
Naphthalene	A	***3.2***	0.16	1.0		µg, Total	1	08/20/07 20:37
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:37
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:37
Surr: Nitrobenzene-d5	S	82.1	0	30-130		%REC	1	08/20/07 20:37
Surr: 2-Fluorobiphenyl	S	82.5	0	30-130		%REC	1	08/20/07 20:37
Surr: Terphenyl-d14	S	117	0	30-130		%REC	1	08/20/07 20:37

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #3 TOX 1 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-03A
Collection Date: 08/10/07 13:48
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*2.9*	0.9	10	J	µg, Total	1	08/20/07 21:40	J
1,2-Dichlorobenzene	A	*7.3*	0.7	10	J	µg, Total	1	08/20/07 21:40	
1,3-Dichlorobenzene	A	*0.83*	0.8	10	J	µg, Total	1	08/20/07 21:40	
1,4-Dichlorobenzene	A	*2.5*	0.9	10	J	µg, Total	1	08/20/07 21:40	
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 21:40	UJ
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:40	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:40	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 21:40	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:40	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:40	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:40	
2-Methylnaphthalene	A	*2*	0.9	10	J	µg, Total	1	08/20/07 21:40	J
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 21:40	UJ
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 21:40	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 21:40	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 21:40	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 21:40	
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:40	
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 21:40	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 21:40	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 21:40	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 21:40	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 21:40	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 21:40	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
Bis(2-ethylhexyl)phthalate	A	*62*	1.1	10	b	µg, Total	1	08/20/07 21:40	J
Butyl benzyl phthalate	A	*1.1*	1	10	J	µg, Total	1	08/20/07 21:40	J
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	08/20/07 21:40	UJ
Di-n-octyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:40	
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 21:40	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 21:40	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 21:40	
Hexachlorobutadiene	A	*3.7*	0.9	10	J	µg, Total	1	08/20/07 21:40	J
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 21:40	UJ

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #3 TOX 1 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-03A
Collection Date: 08/10/07 13:48
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	08/20/07 21:40	UJ
Isophorone	A	2.3	1	10	J	µg, Total	1	08/20/07 21:40	J
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	08/20/07 21:40	UJ
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	08/20/07 21:40	
Nitrobenzene	A	ND	1	10		µg, Total	1	08/20/07 21:40	
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	08/20/07 21:40	
Phenol	A	ND	0.4	10		µg, Total	1	08/20/07 21:40	
Surr: 2,4,6-Tribromophenol	S	19.6	0	30-130	SI	%REC	1	08/20/07 21:40	
Surr: 2-Fluorobiphenyl	S	74.3	0	30-130		%REC	1	08/20/07 21:40	
Surr: 2-Fluorophenol	S	14.7	0	30-130	SI	%REC	1	08/20/07 21:40	
Surr: Nitrobenzene-d5	S	72.1	0	30-130		%REC	1	08/20/07 21:40	
Surr: Phenol-d5	S	86.4	0	30-130		%REC	1	08/20/07 21:40	
Surr: Terphenyl-d14	S	127	0	30-130		%REC	1	08/20/07 21:40	
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	08/20/07 21:02	
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	08/20/07 21:02	
Anthracene	A	ND	0.27	1.0		µg, Total	1	08/20/07 21:02	
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	08/20/07 21:02	
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	08/20/07 21:02	
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	08/20/07 21:02	
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	08/20/07 21:02	
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	08/20/07 21:02	
Chrysene	A	ND	0.57	1.0		µg, Total	1	08/20/07 21:02	
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	08/20/07 21:02	
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	08/20/07 21:02	
Fluorene	A	ND	0.25	1.0		µg, Total	1	08/20/07 21:02	
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	08/20/07 21:02	
Naphthalene	A	3.4	0.16	1.0		µg, Total	1	08/20/07 21:02	
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	08/20/07 21:02	
Pyrene	A	ND	0.44	1.0		µg, Total	1	08/20/07 21:02	
Surr: Nitrobenzene-d5	S	84.4	0	30-130		%REC	1	08/20/07 21:02	
Surr: 2-Fluorobiphenyl	S	98.1	0	30-130		%REC	1	08/20/07 21:02	
Surr: Terphenyl-d14	S	138	0	30-130	S	%REC	1	08/20/07 21:02	OK

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #4 TOX 1 INF (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-04A
Collection Date: 08/10/07 14:21
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*1.9*	0.9	10	J	µg, Total	1	08/20/07 22:06	J
1,2-Dichlorobenzene	A	*6*	0.7	10	J	µg, Total	1	08/20/07 22:06	J
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:06	UJ
1,4-Dichlorobenzene	A	*1.8*	0.9	10	J	µg, Total	1	08/20/07 22:06	J
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 22:06	UJ
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 22:06	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:06	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 22:06	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:06	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 22:06	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 22:06	
2-Methylnaphthalene	A	*1.5*	0.9	10	J	µg, Total	1	08/20/07 22:06	J
2-Methylphenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 22:06	UJ
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 22:06	
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 22:06	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 22:06	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 22:06	
3/4-Methylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:06	
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 22:06	
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 22:06	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 22:06	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 22:06	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 22:06	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 22:06	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
Bis(2-ethylhexyl)phthalate	A	*31*	1.1	10	b	µg, Total	1	08/20/07 22:06	J
Butyl benzyl phthalate	A	*1.4*	1	10	J	µg, Total	1	08/20/07 22:06	J
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	08/20/07 22:06	UJ
Di-n-octyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 22:06	
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:06	
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 22:06	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:06	
Hexachlorobutadiene	A	*2.8*	0.9	10	J	µg, Total	1	08/20/07 22:06	J
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 22:06	UJ

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #4 TOX 1 INF (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-04A
Collection Date: 08/10/07 14:21
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	ND	0.9	10		µg, Total	1	08/20/07 22:06
Isophorone	A	1.8	1	10	J	µg, Total	1	08/20/07 22:06
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	08/20/07 22:06
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	08/20/07 22:06
Nitrobenzene	A	ND	1	10		µg, Total	1	08/20/07 22:06
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	08/20/07 22:06
Phenol	A	ND	0.4	10		µg, Total	1	08/20/07 22:06
Surr: 2,4,6-Tribromophenol	S	16.5	0	30-130	SI	%REC	1	08/20/07 22:06
Surr: 2-Fluorobiphenyl	S	67.1	0	30-130		%REC	1	08/20/07 22:06
Surr: 2-Fluorophenol	S	11.2	0	30-130	SI	%REC	1	08/20/07 22:06
Surr: Nitrobenzene-d5	S	60.2	0	30-130		%REC	1	08/20/07 22:06
Surr: Phenol-d5	S	76.1	0	30-130		%REC	1	08/20/07 22:06
Surr: Terphenyl-d14	S	106	0	30-130		%REC	1	08/20/07 22:06
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	08/20/07 21:27
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	08/20/07 21:27
Anthracene	A	ND	0.27	1.0		µg, Total	1	08/20/07 21:27
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	08/20/07 21:27
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	08/20/07 21:27
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	08/20/07 21:27
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	08/20/07 21:27
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	08/20/07 21:27
Chrysene	A	ND	0.57	1.0		µg, Total	1	08/20/07 21:27
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	08/20/07 21:27
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	08/20/07 21:27
Fluorene	A	ND	0.25	1.0		µg, Total	1	08/20/07 21:27
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	08/20/07 21:27
Naphthalene	A	2.7	0.16	1.0		µg, Total	1	08/20/07 21:27
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	08/20/07 21:27
Pyrene	A	ND	0.44	1.0		µg, Total	1	08/20/07 21:27
Surr: Nitrobenzene-d5	S	61.6	0	30-130		%REC	1	08/20/07 21:27
Surr: 2-Fluorobiphenyl	S	72.2	0	30-130		%REC	1	08/20/07 21:27
Surr: Terphenyl-d14	S	112	0	30-130		%REC	1	08/20/07 21:27

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #5 TOX 1 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-05A
Collection Date: 08/10/07 13:54
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	08/20/07 22:31
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	08/20/07 22:31
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	08/20/07 22:31
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	08/20/07 22:31
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	08/20/07 22:31
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	08/20/07 22:31
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	08/20/07 22:31
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	08/20/07 22:31
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	08/20/07 22:31
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
2-Methylphenol	A	ND	0.7	10		µg, Total	1	08/20/07 22:31
2-Nitroaniline	A	ND	1	50		µg, Total	1	08/20/07 22:31
2-Nitrophenol	A	ND	1	10		µg, Total	1	08/20/07 22:31
3,3'-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	08/20/07 22:31
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	08/20/07 22:31
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	08/20/07 22:31
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	08/20/07 22:31
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	08/20/07 22:31
4-Chloroaniline	A	ND	1	20		µg, Total	1	08/20/07 22:31
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	08/20/07 22:31
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	08/20/07 22:31
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	08/20/07 22:31
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
Bis(2-ethylhexyl)phthalate	A	8.7	1.1	10	Jb	µg, Total	1	08/20/07 22:31
Butyl benzyl phthalate	A	1.8	1	10	J	µg, Total	1	08/20/07 22:31
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	08/20/07 22:31
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	08/20/07 22:31
Dibenzofuran	A	ND	0.8	10		µg, Total	1	08/20/07 22:31
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	08/20/07 22:31
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	08/20/07 22:31
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	08/20/07 22:31

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #5 TOX 1 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-05A
Collection Date: 08/10/07 13:54
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	08/20/07 22:31
Isophorone	A	***ND***	1	10		µg, Total	1	08/20/07 22:31
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	08/20/07 22:31
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	08/20/07 22:31
Nitrobenzene	A	***ND***	1	10		µg, Total	1	08/20/07 22:31
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	08/20/07 22:31
Phenol	A	***ND***	0.4	10		µg, Total	1	08/20/07 22:31
Surr: 2,4,6-Tribromophenol	S	19.7	0	30-130	SI	%REC	1	08/20/07 22:31
Surr: 2-Fluorobiphenyl	S	64.2	0	30-130		%REC	1	08/20/07 22:31
Surr: 2-Fluorophenol	S	13.2	0	30-130	SI	%REC	1	08/20/07 22:31
Surr: Nitrobenzene-d5	S	59.0	0	30-130		%REC	1	08/20/07 22:31
Surr: Phenol-d5	S	81.1	0	30-130		%REC	1	08/20/07 22:31
Surr: Terphenyl-d14	S	110	0	30-130		%REC	1	08/20/07 22:31
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	08/20/07 20:57
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	08/20/07 20:57
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:57
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	08/20/07 20:57
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	08/20/07 20:57
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:57
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	08/20/07 20:57
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	08/20/07 20:57
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	08/20/07 20:57
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	08/20/07 20:57
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	08/20/07 20:57
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	08/20/07 20:57
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	08/20/07 20:57
Naphthalene	A	***0.19***	0.16	1.0	J	µg, Total	1	08/20/07 20:57
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:57
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:57
Surr: Nitrobenzene-d5	S	69.8	0	30-130		%REC	1	08/20/07 20:57
Surr: 2-Fluorobiphenyl	S	73.7	0	30-130		%REC	1	08/20/07 20:57
Surr: Terphenyl-d14	S	95.0	0	30-130		%REC	1	08/20/07 20:57

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #6 TOX 2 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-06A
Collection Date: 08/10/07 14:46
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*1.9*	0.9	10	J	µg, Total	1	08/20/07 22:56
1,2-Dichlorobenzene	A	*21*	0.7	10		µg, Total	1	08/20/07 22:56
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:56
1,4-Dichlorobenzene	A	*2.7*	0.9	10	J	µg, Total	1	08/20/07 22:56
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 22:56
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 22:56
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:56
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 22:56
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:56
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 22:56
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 22:56
2-Methylnaphthalene	A	*4.4*	0.9	10	J	µg, Total	1	08/20/07 22:56
2-Methylphenol	A	*1.6*	0.7	10	J	µg, Total	1	08/20/07 22:56
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 22:56
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 22:56
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 22:56
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 22:56
3/4-Methylphenol	A	*1.6*	0.8	10	J	µg, Total	1	08/20/07 22:56
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 22:56
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 22:56
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 22:56
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 22:56
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 22:56
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 22:56
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
Bis(2-ethylhexyl)phthalate	A	*180*	4.4	40		µg, Total	4	08/21/07 22:21
Butyl benzyl phthalate	A	*ND*	1	10		µg, Total	1	08/20/07 22:56
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	08/20/07 22:56
Di-n-octyl phthalate	A	*3*	1.1	10	J	µg, Total	1	08/20/07 22:56
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 22:56
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 22:56
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 22:56
Hexachlorobutadiene	A	*3.9*	0.9	10	J	µg, Total	1	08/20/07 22:56
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 22:56

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #6 TOX 2 INF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-06A
Collection Date: 08/10/07 14:46
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	08/20/07 22:56
Isophorone	A	***29***	1	10		µg, Total	1	08/20/07 22:56
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	08/20/07 22:56
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	08/20/07 22:56
Nitrobenzene	A	***ND***	1	10		µg, Total	1	08/20/07 22:56
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	08/20/07 22:56
Phenol	A	***ND***	0.4	10		µg, Total	1	08/20/07 22:56
Surr: 2,4,6-Tribromophenol	S	34.2	0	30-130		%REC	1	08/20/07 22:56
Surr: 2-Fluorobiphenyl	S	59.2	0	30-130		%REC	1	08/20/07 22:56
Surr: 2-Fluorophenol	S	12.5	0	30-130	S	%REC	1	08/20/07 22:56 OK
Surr: Nitrobenzene-d5	S	53.6	0	30-130		%REC	1	08/20/07 22:56
Surr: Phenol-d5	S	65.0	0	30-130		%REC	1	08/20/07 22:56
Surr: Terphenyl-d14	S	85.2	0	30-130		%REC	1	08/20/07 22:56
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	08/20/07 20:30
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	08/20/07 20:30
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:30
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	08/20/07 20:30
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	08/20/07 20:30
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:30
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	08/20/07 20:30
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	08/20/07 20:30
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	08/20/07 20:30
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	08/20/07 20:30
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	08/20/07 20:30
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	08/20/07 20:30
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	08/20/07 20:30
Naphthalene	A	***29***	0.16	1.0		µg, Total	1	08/20/07 20:30
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	08/20/07 20:30
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	08/20/07 20:30
Surr: Nitrobenzene-d5	S	54.2	0	30-130		%REC	1	08/20/07 20:30
Surr: 2-Fluorobiphenyl	S	64.8	0	30-130		%REC	1	08/20/07 20:30
Surr: Terphenyl-d14	S	107	0	30-130		%REC	1	08/20/07 20:30

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #7 TOX 2 INF (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-07A
Collection Date: 08/10/07 15:09
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	*2.6*	0.9	10	J	µg, Total	1	08/20/07 23:21	J
1,2-Dichlorobenzene	A	*25*	0.7	10		µg, Total	1	08/20/07 23:21	UJ
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	08/20/07 23:21	
1,4-Dichlorobenzene	A	*2.9*	0.9	10	J	µg, Total	1	08/20/07 23:21	J
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	08/20/07 23:21	UJ
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 23:21	
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	08/20/07 23:21	
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	08/20/07 23:21	
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	08/20/07 23:21	
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	08/20/07 23:21	
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	08/20/07 23:21	
2-Methylnaphthalene	A	*5.7*	0.9	10	J	µg, Total	1	08/20/07 23:21	J
2-Methylphenol	A	*1.7*	0.7	10	J	µg, Total	1	08/20/07 23:21	J
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	08/20/07 23:21	UJ
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	08/20/07 23:21	
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	08/20/07 23:21	
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	08/20/07 23:21	
3/4-Methylphenol	A	*2*	0.8	10	J	µg, Total	1	08/20/07 23:21	J
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	08/20/07 23:21	UJ
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	08/20/07 23:21	
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	08/20/07 23:21	
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	08/20/07 23:21	
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	08/20/07 23:21	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	08/20/07 23:21	
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
Bis(2-ethylhexyl)phthalate	A	*120*	1.1	10	b	µg, Total	1	08/20/07 23:21	J
Butyl benzyl phthalate	A	*1.5*	1	10	J	µg, Total	1	08/20/07 23:21	J
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	08/20/07 23:21	UJ
Di-n-octyl phthalate	A	*1.5*	1.1	10	J	µg, Total	1	08/20/07 23:21	J
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	08/20/07 23:21	UJ
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	08/20/07 23:21	
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	08/20/07 23:21	
Hexachlorobutadiene	A	*4.4*	0.9	10	J	µg, Total	1	08/20/07 23:21	J
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	08/20/07 23:21	UJ

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #7 TOX 2 INF (DUP)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-07A
Collection Date: 08/10/07 15:09
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	ND	0.9	10		µg, Total	1	08/20/07 23:21
Isophorone	A	36	1	10		µg, Total	1	08/20/07 23:21
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	08/20/07 23:21
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	08/20/07 23:21
Nitrobenzene	A	ND	1	10		µg, Total	1	08/20/07 23:21
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	08/20/07 23:21
Phenol	A	ND	0.4	10		µg, Total	1	08/20/07 23:21
Surr: 2,4,6-Tribromophenol	S	13.5	0	30-130	SI	%REC	1	08/20/07 23:21
Surr: 2-Fluorobiphenyl	S	58.9	0	30-130		%REC	1	08/20/07 23:21
Surr: 2-Fluorophenol	S	19.2	0	30-130	SI	%REC	1	08/20/07 23:21
Surr: Nitrobenzene-d5	S	57.4	0	30-130		%REC	1	08/20/07 23:21
Surr: Phenol-d5	S	70.9	0	30-130		%REC	1	08/20/07 23:21
Surr: Terphenyl-d14	S	97.9	0	30-130		%REC	1	08/20/07 23:21
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	08/20/07 20:03
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	08/20/07 20:03
Anthracene	A	ND	0.27	1.0		µg, Total	1	08/20/07 20:03
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	08/20/07 20:03
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	08/20/07 20:03
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	08/20/07 20:03
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	08/20/07 20:03
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	08/20/07 20:03
Chrysene	A	ND	0.57	1.0		µg, Total	1	08/20/07 20:03
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	08/20/07 20:03
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	08/20/07 20:03
Fluorene	A	ND	0.25	1.0		µg, Total	1	08/20/07 20:03
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	08/20/07 20:03
Naphthalene	A	40	0.16	1.0		µg, Total	1	08/20/07 20:03
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	08/20/07 20:03
Pyrene	A	ND	0.44	1.0		µg, Total	1	08/20/07 20:03
Surr: Nitrobenzene-d5	S	57.6	0	30-130		%REC	1	08/20/07 20:03
Surr: 2-Fluorobiphenyl	S	68.5	0	30-130		%REC	1	08/20/07 20:03
Surr: Terphenyl-d14	S	91.4	0	30-130		%REC	1	08/20/07 20:03

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #8 TOX 2 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-08A
Collection Date: 08/10/07 14:15
Date Received: 08/10/07 18:05

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **08/18/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
1,2-Dichlorobenzene	A	1.7	0.7	10	J	µg, Total	1	08/20/07 23:46	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	08/20/07 23:46	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	08/20/07 23:46	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	08/20/07 23:46	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	08/20/07 23:46	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	08/20/07 23:46	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	08/20/07 23:46	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	08/20/07 23:46	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
2-Chlorophenol	A	1	0.7	10	J	µg, Total	1	08/20/07 23:46	R
2-Methylnaphthalene	A	1.1	0.9	10	J	µg, Total	1	08/20/07 23:46	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	08/20/07 23:46	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	08/20/07 23:46	
2-Nitrophenol	A	ND	1	10		µg, Total	1	08/20/07 23:46	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	08/20/07 23:46	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	08/20/07 23:46	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	08/20/07 23:46	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	08/20/07 23:46	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	08/20/07 23:46	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	08/20/07 23:46	R
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	08/20/07 23:46	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	08/20/07 23:46	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	08/20/07 23:46	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
Bis(2-ethylhexyl)phthalate	A	15	1.1	10	b	µg, Total	1	08/20/07 23:46	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	08/20/07 23:46	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	08/20/07 23:46	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	08/20/07 23:46	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	08/20/07 23:46	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	08/20/07 23:46	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	08/20/07 23:46	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	08/20/07 23:46	

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ANALYTICAL RESULTS

Date: *Thursday, September 20, 2007*

Client: MWH, Inc.
Client Project: August 2007 - Monthly Air/ACS
Client Sample ID: #8 TOX 2 EFF
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0708451-08A
Collection Date: 08/10/07 14:15
Date Received: 08/10/07 18:05

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	ND	0.9	10		µg, Total	1	08/20/07 23:46
Isophorone	A	1.8	1	10	J	µg, Total	1	08/20/07 23:46
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	08/20/07 23:46
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	08/20/07 23:46
Nitrobenzene	A	ND	1	10		µg, Total	1	08/20/07 23:46
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	08/20/07 23:46
Phenol	A	ND	0.4	10		µg, Total	1	08/20/07 23:46
Surr: 2,4,6-Tribromophenol	S	0.373	0	30-130	SI	%REC	1	08/20/07 23:46
Surr: 2-Fluorobiphenyl	S	57.6	0	30-130		%REC	1	08/20/07 23:46
Surr: 2-Fluorophenol	S	7.51	0	30-130	SI	%REC	1	08/20/07 23:46
Surr: Nitrobenzene-d5	S	50.7	0	30-130		%REC	1	08/20/07 23:46
Surr: Phenol-d5	S	69.6	0	30-130		%REC	1	08/20/07 23:46
Surr: Terphenyl-d14	S	87.3	0	30-130		%REC	1	08/20/07 23:46
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **08/18/07 00:00**		Analyst: **BEM**
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	08/20/07 19:37
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	08/20/07 19:37
Anthracene	A	ND	0.27	1.0		µg, Total	1	08/20/07 19:37
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	08/20/07 19:37
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	08/20/07 19:37
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	08/20/07 19:37
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	08/20/07 19:37
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	08/20/07 19:37
Chrysene	A	ND	0.57	1.0		µg, Total	1	08/20/07 19:37
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	08/20/07 19:37
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	08/20/07 19:37
Fluorene	A	ND	0.25	1.0		µg, Total	1	08/20/07 19:37
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	08/20/07 19:37
Naphthalene	A	4.4	0.16	1.0		µg, Total	1	08/20/07 19:37
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	08/20/07 19:37
Pyrene	A	ND	0.44	1.0		µg, Total	1	08/20/07 19:37
Surr: Nitrobenzene-d5	S	51.3	0	30-130		%REC	1	08/20/07 19:37
Surr: 2-Fluorobiphenyl	S	65.4	0	30-130		%REC	1	08/20/07 19:37
Surr: Terphenyl-d14	S	78.4	0	30-130		%REC	1	08/20/07 19:37

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

September 26, 2007 Off-Gas Sample Laboratory Results

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #1 Offsite ISVE

Lab ID#: 0710575-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102527	Date of Collection:	9/26/07
Dil. Factor:	1090	Date of Analysis:	10/26/07 06:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	540	1000	1400	2600
Bromomethane	540	Not Detected	2100	Not Detected
Chloroethane	540	Not Detected	1400	Not Detected
1,1-Dichloroethene	540	550	2200	2200
Methylene Chloride	540	77000	1900	270000
1,1-Dichloroethane	540	11000	2200	44000
cis-1,2-Dichloroethene	540	2600	2200	10000
Chloroform	540	2600	2700	13000
1,1,1-Trichloroethane	540	43000	3000	230000
Carbon Tetrachloride	540	Not Detected	3400	Not Detected
Benzene	540	19000	1700	60000
1,2-Dichloroethane	540	980	2200	4000
Trichloroethene	540	19000	2900	100000
1,2-Dichloropropane	540	Not Detected	2500	Not Detected
cis-1,3-Dichloropropene	540	Not Detected	2500	Not Detected
Toluene	540	110000	2000	420000
trans-1,3-Dichloropropene	540	Not Detected	2500	Not Detected
1,1,2-Trichloroethane	540	Not Detected	3000	Not Detected
Tetrachloroethene	540	8700	3700	59000
Chlorobenzene	540	Not Detected	2500	Not Detected
Ethyl Benzene	540	4900	2400	21000
m,p-Xylene	540	15000	2400	66000
o-Xylene	540	4400	2400	19000
Styrene	540	Not Detected	2300	Not Detected
1,1,2,2-Tetrachloroethane	540	Not Detected	3700	Not Detected
Bromodichloromethane	540	Not Detected	3600	Not Detected
Dibromochloromethane	540	Not Detected	4600	Not Detected
Chloromethane	2200	320 J 15	4500	670 J
Acetone	2200	49000	5200	120000
Carbon Disulfide	2200	450 J	6800	1400 J
trans-1,2-Dichloroethene	2200	Not Detected	8600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2200	60000	6400	180000
4-Methyl-2-pentanone	2200	12000	8900	49000
2-Hexanone	2200	Not Detected	8900	Not Detected
Bromoform	2200	Not Detected	22000	Not Detected

J = Estimated value.

Container Type: Client Canister

ORS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #1 Offsite ISVE

Lab ID#: 0710575-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102527	Date of Collection:	9/26/07
Dil. Factor:	1030	Date of Analysis:	10/26/07 06:11 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	78	70-130

CB 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #2 SBPA ISVE

Lab ID#: 0710575-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102524	Date of Collection:	9/26/07
Dil. Factor:	260	Date of Analysis:	10/26/07 04:05 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	130	2100	330	5300
Bromomethane	130	Not Detected	500	Not Detected
Chloroethane	130	360	340	950
1,1-Dichloroethene	130	240	520	940
Methylene Chloride	130	6200	450	22000
1,1-Dichloroethane	130	2000	530	8000
cis-1,2-Dichloroethene	130	14000	520	54000
Chloroform	130	4200	630	20000
1,1,1-Trichloroethane	130	13000	710	74000
Carbon Tetrachloride	130	Not Detected	820	Not Detected
Benzene	130	3400	420	11000
1,2-Dichloroethane	130	360	530	1500
Trichloroethene	130	9100	700	49000
1,2-Dichloropropane	130	290	600	1400
cis-1,3-Dichloropropene	130	Not Detected	590	Not Detected
Toluene	130	42000	490	160000
trans-1,3-Dichloropropene	130	Not Detected	590	Not Detected
1,1,2-Trichloroethane	130	Not Detected	710	Not Detected
Tetrachloroethene	130	22000	880	150000
Chlorobenzene	130	Not Detected	600	Not Detected
Ethyl Benzene	130	8900	560	39000
m,p-Xylene	130	29000	560	120000
o-Xylene	130	12000	560	54000
Styrene	130	Not Detected	550	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	890	Not Detected
Bromodichloromethane	130	Not Detected	870	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
Chloromethane	520	Not Detected	1100	Not Detected
Acetone	520	1500	1200	3500
Carbon Disulfide	520	58 J	1600	180 J
trans-1,2-Dichloroethene	520	110 J	2100	420 J
2-Butanone (Methyl Ethyl Ketone)	520	540	1500	1600
4-Methyl-2-pentanone	520	920	2100	3800
2-Hexanone	520	Not Detected	2100	Not Detected
Bromoform	520	Not Detected	5400	Not Detected

J = Estimated value.

Container Type: Client Canister

ens
12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #2 SBPA ISVE

Lab ID#: 0710575-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102524	Date of Collection:	9/26/07
Dil. Factor:	260	Date of Analysis:	10/26/07 04:05 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	79	70-130

CMS
12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #3 TOX 1 Inluent

Lab ID#: 0710575-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102523	Date of Collection:	9/26/07
Dil. Factor:	268	Date of Analysis:	10/26/07 03:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	130	1900	340	4900
Bromomethane	130	Not Detected	520	Not Detected
Chloroethane	130	340	350	890
1,1-Dichloroethene	130	220	530	870
Methylene Chloride	130	6400	460	22000
1,1-Dichloroethane	130	1800	540	7400
cis-1,2-Dichloroethene	130	12000	530	50000
Chloroform	130	4000	650	20000
1,1,1-Trichloroethane	130	13000	730	72000
Carbon Tetrachloride	130	Not Detected	840	Not Detected
Benzene	130	3200	430	10000
1,2-Dichloroethane	130	350	540	1400
Trichloroethene	130	8800	720	47000
1,2-Dichloropropane	130	280	620	1300
cis-1,3-Dichloropropene	130	Not Detected	610	Not Detected
Toluene	130	42000	500	160000
trans-1,3-Dichloropropene	130	Not Detected	610	Not Detected
1,1,2-Trichloroethane	130	Not Detected	730	Not Detected
Tetrachloroethene	130	22000	910	150000
Chlorobenzene	130	Not Detected	620	Not Detected
Ethyl Benzene	130	8900	580	38000
m,p-Xylene	130	29000	580	120000
o-Xylene	130	12000	580	53000
Styrene	130	Not Detected	570	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	920	Not Detected
Bromodichloromethane	130	Not Detected	900	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
Chloromethane	540	Not Detected	1100	Not Detected
Acetone	540	1400	1300	3300
Carbon Disulfide	540	49 J	1700	150 J
trans-1,2-Dichloroethene	540	Not Detected	2100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	540	420 J	1600	1200 J
4-Methyl-2-pentanone	540	840	2200	3400
2-Hexanone	540	Not Detected	2200	Not Detected
Bromoform	540	Not Detected	5500	Not Detected

J = Estimated value.

Container Type: Client Canister

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #3 TOX 1 Inluent

Lab ID#: 0710575-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102523	Date of Collection:	9/26/07
Dil. Factor:	268	Date of Analysis:	10/26/07 03:21 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	80	70-130

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Lab ID#: 0710575-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102522	Date of Collection:	9/26/07
Dil Factor:	272	Date of Analysis:	10/26/07 02:40 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	140	2100	350	5500
Bromomethane	140	Not Detected	530	Not Detected
Chloroethane	140	380	360	1000
1,1-Dichloroethene	140	280	540	1100
Methylene Chloride	140	6700	470	23000
1,1-Dichloroethane	140	2100	550	8400
cis-1,2-Dichloroethene	140	14000	540	54000
Chloroform	140	4300	660	21000
1,1,1-Trichloroethane	140	14000	740	76000
Carbon Tetrachloride	140	Not Detected	860	Not Detected
Benzene	140	3300	430	11000
1,2-Dichloroethane	140	370	550	1500
Trichloroethene	140	8900	730	48000
1,2-Dichloropropane	140	280	630	1300
cis-1,3-Dichloropropene	140	Not Detected	620	Not Detected
Toluene	140	42000	510	160000
trans-1,3-Dichloropropene	140	Not Detected	620	Not Detected
1,1,2-Trichloroethane	140	Not Detected	740	Not Detected
Tetrachloroethene	140	22000	920	150000
Chlorobenzene	140	Not Detected	630	Not Detected
Ethyl Benzene	140	8800	590	38000
m,p-Xylene	140	29000	590	120000
o-Xylene	140	12000	590	52000
Styrene	140	Not Detected	580	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	930	Not Detected
Bromodichloromethane	140	Not Detected	910	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
Chloromethane	540	Not Detected	1100	Not Detected
Acetone	540	1400	1300	3200
Carbon Disulfide	540	44 J	1700	140 J
trans-1,2-Dichloroethene	540	120 J	2200	460 J
2-Butanone (Methyl Ethyl Ketone)	540	490 J	1600	1400 J
4-Methyl-2-pentanone	540	720	2200	2900
2-Hexanone	540	Not Detected	2200	Not Detected
Bromoform	540	Not Detected	5600	Not Detected

J = Estimated value.

Container Type: Client Canister

GRS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Lab ID#: 0710575-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102522	Date of Collection:	9/26/07
Dil. Factor:	272	Date of Analysis:	10/26/07 02:40 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	77	70-130

CPS 12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #5 TOX 1 Effluent

Lab ID#: 0710575-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102519	Date of Collection:	9/26/07
Dil. Factor:	1.29	Date of Analysis:	10/26/07 12:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.64	Not Detected	1.6	Not Detected
Bromomethane	0.64	Not Detected	2.5	Not Detected
Chloroethane	0.64	Not Detected	1.7	Not Detected
1,1-Dichloroethene	0.64	0.68	2.6	2.7
Methylene Chloride	0.64	23	2.2	81
1,1-Dichloroethane	0.64	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.64	16	2.6	65
Chloroform	0.64	Not Detected	3.1	Not Detected
1,1,1-Trichloroethane	0.64	0.63 J	3.5	3.4 J
Carbon Tetrachloride	0.64	Not Detected	4.0	Not Detected
Benzene	0.64	1.4	2.1	4.4
1,2-Dichloroethane	0.64	Not Detected	2.6	Not Detected
Trichloroethene	0.64	3.1	3.5	16
1,2-Dichloropropane	0.64	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.64	Not Detected	2.9	Not Detected
Toluene	0.64	22	2.4	85
trans-1,3-Dichloropropene	0.64	Not Detected	2.9	Not Detected
1,1,2-Trichloroethane	0.64	Not Detected	3.5	Not Detected
Tetrachloroethene	0.64	5.4	4.4	37
Chlorobenzene	0.64	Not Detected	3.0	Not Detected
Ethyl Benzene	0.64	2.8	2.8	12
m,p-Xylene	0.64	12	2.8	54
o-Xylene	0.64	3.6	2.8	16
Styrene	0.64	Not Detected	2.7	Not Detected
1,1,2,2-Tetrachloroethane	0.64	Not Detected	4.4	Not Detected
Bromodichloromethane	0.64	Not Detected	4.3	Not Detected
Dibromochloromethane	0.64	Not Detected	5.5	Not Detected
Chloromethane	2.6	Not Detected	5.3	Not Detected
Acetone	2.6	22	6.1	52
Carbon Disulfide	2.6	1.2 J	8.0	3.9 J
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	6.8	7.6	20
4-Methyl-2-pentanone	2.6	1.3 J	10	5.5 J
2-Hexanone	2.6	0.32 J	10	1.3 J
Bromoform	2.6	Not Detected	27	Not Detected

J = Estimated value.

Container Type: Client Canister

CMS 12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #5 TOX 1 Effluent

Lab ID#: 0710575-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102519	Date of Collection:	9/26/07
Dil Factor:	1.29	Date of Analysis:	10/26/07 12:27 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	77	70-130

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #6 TOX 2 Influent

Lab ID#: 0710575-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102525	Date of Collection:	9/26/07
Dil. Factor:	1090	Date of Analysis:	10/26/07 04:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	540	830	1400	2100
Bromomethane	540	Not Detected	2100	Not Detected
Chloroethane	540	310 J	1400	810 J
1,1-Dichloroethene	540	620	2200	2500
Methylene Chloride	540	72000	1900	250000
1,1-Dichloroethane	540	9700	2200	39000
cis-1,2-Dichloroethene	540	2500	2200	10000
Chloroform	540	2400	2700	12000
1,1,1-Trichloroethane	540	38000	3000	210000
Carbon Tetrachloride	540	Not Detected	3400	Not Detected
Benzene	540	17000	1700	54000
1,2-Dichloroethane	540	810	2200	3300
Trichloroethene	540	16000	2900	86000
1,2-Dichloropropane	540	Not Detected	2500	Not Detected
cis-1,3-Dichloropropene	540	Not Detected	2500	Not Detected
Toluene	540	97000	2000	370000
trans-1,3-Dichloropropene	540	Not Detected	2500	Not Detected
1,1,2-Trichloroethane	540	Not Detected	3000	Not Detected
Tetrachloroethene	540	7600	3700	51000
Chlorobenzene	540	Not Detected	2500	Not Detected
Ethyl Benzene	540	3900	2400	17000
m,p-Xylene	540	12000	2400	52000
o-Xylene	540	3400	2400	14000
Styrene	540	Not Detected	2300	Not Detected
1,1,2,2-Tetrachloroethane	540	Not Detected	3700	Not Detected
Bromodichloromethane	540	Not Detected	3600	Not Detected
Dibromochloromethane	540	Not Detected	4600	Not Detected
Chloromethane	2200	Not Detected	4500	Not Detected
Acetone	2200	44000	5200	100000
Carbon Disulfide	2200	310 J	6800	970 J
trans-1,2-Dichloroethene	2200	Not Detected	8600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2200	54000	6400	160000
4-Methyl-2-pentanone	2200	12000	8900	47000
2-Hexanone	2200	Not Detected	8900	Not Detected
Bromoform	2200	Not Detected	22000	Not Detected

J = Estimated value.

Container Type: Client Canister

CRS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #6 TOX 2 Influent

Lab ID#: 0710575-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102525	Date of Collection:	9/26/07
Dil. Factor:	1090	Date of Analysis:	10/26/07 04:49 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	78	70-130

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #7 TOX 2 Influent (DUP)

Lab ID#: 0710575-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102528	Date of Collection:	9/26/07
Dil. Factor:	536	Date of Analysis:	10/26/07 06:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	270	890	680	2300
Bromomethane	270	Not Detected	1000	Not Detected
Chloroethane	270	270	710	710
1,1-Dichloroethene	270	560	1100	2200
Methylene Chloride	270	70000	930	240000
1,1-Dichloroethane	270	9700	1100	39000
cis-1,2-Dichloroethene	270	2500	1100	9800
Chloroform	270	2400	1300	12000
1,1,1-Trichloroethane	270	39000	1500	210000
Carbon Tetrachloride	270	Not Detected	1700	Not Detected
Benzene	270	17000	860	54000
1,2-Dichloroethane	270	780	1100	3200
Trichloroethene	270	16000	1400	86000
1,2-Dichloropropane	270	180 J	1200	820 J
cis-1,3-Dichloropropene	270	Not Detected	1200	Not Detected
Toluene	270	96000	1000	360000
trans-1,3-Dichloropropene	270	Not Detected	1200	Not Detected
1,1,2-Trichloroethane	270	Not Detected	1500	Not Detected
Tetrachloroethene	270	7800	1800	53000
Chlorobenzene	270	Not Detected	1200	Not Detected
Ethyl Benzene	270	3900	1200	17000
m,p-Xylene	270	12000	1200	50000
o-Xylene	270	3200	1200	14000
Styrene	270	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	270	Not Detected	1800	Not Detected
Bromodichloromethane	270	Not Detected	1800	Not Detected
Dibromochloromethane	270	Not Detected	2300	Not Detected
Chloromethane	1100	240 J	2200	500 J
Acetone	1100	43000	2500	100000
Carbon Disulfide	1100	400 J	3300	1300 J
trans-1,2-Dichloroethene	1100	Not Detected	4200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1100	55000	3200	160000
4-Methyl-2-pentanone	1100	11000	4400	45000
2-Hexanone	1100	230 J	4400	960 J
Bromoform	1100	Not Detected	11000	Not Detected

J = Estimated value.

Container Type: Client Canister

CMS 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #7 TOX 2 Influent (DUP)

Lab ID#: 0710575-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102528	Date of Collection:	9/26/07
Dil. Factor:	536	Date of Analysis:	10/26/07 06:52 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	75	70-130

CMS 12/11/07

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #8 TOX 2 Effluent

Lab ID#: 0710575-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102521	Date of Collection:	9/26/07
Dil. Factor:	38.3	Date of Analysis:	10/26/07 01:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	19	100	49	270
Bromomethane	19	Not Detected	74	Not Detected
Chloroethane	19	Not Detected	50	Not Detected
1,1-Dichloroethene	19	360	76	1400
Methylene Chloride	19	2600	66	9100
1,1-Dichloroethane	19	320	78	1300
cis-1,2-Dichloroethene	19	160	76	640
Chloroform	19	100	94	510
1,1,1-Trichloroethane	19	1300	100	7000
Carbon Tetrachloride	19	Not Detected	120	Not Detected
Benzene	19	1000	61	3400
1,2-Dichloroethane	19	37	78	150
Trichloroethene	19	950	100	5100
1,2-Dichloropropane	19	Not Detected	88	Not Detected
cis-1,3-Dichloropropene	19	Not Detected	87	Not Detected
Toluene	19	7000	72	26000
trans-1,3-Dichloropropene	19	Not Detected	87	Not Detected
1,1,2-Trichloroethane	19	Not Detected	100	Not Detected
Tetrachloroethene	19	890	130	6000
Chlorobenzene	19	Not Detected	88	Not Detected
Ethyl Benzene	19	470	83	2000
m,p-Xylene	19	1400	83	6100
o-Xylene	19	440	83	1900
Styrene	19	96	82	410
1,1,2,2-Tetrachloroethane	19	Not Detected	130	Not Detected
Bromodichloromethane	19	Not Detected	130	Not Detected
Dibromochloromethane	19	Not Detected	160	Not Detected
Chloromethane	77	160 15	160	320
Acetone	77	1100	180	2600
Carbon Disulfide	77	20 J	240	63 J
trans-1,2-Dichloroethene	77	Not Detected	300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	77	1400	220	4000
4-Methyl-2-pentanone	77	410	310	1700
2-Hexanone	77	14 J	310	58 J
Bromoform	77	Not Detected	790	Not Detected

J = Estimated value.

Container Type: Client Canister

ejs 12/11/07

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: #8 TOX 2 Effluent

Lab ID#: 0710575-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1102521	Date of Collection:	9/26/07
Dil Factor:	38.3	Date of Analysis:	10/26/07 01:52 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	77	70-130

OMS 12/11/07

ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-01A
Collection Date: 09/26/07 11:04
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	*1.9*	0.9	10	J	µg, Total	1	10/03/07 21:04
1,2-Dichlorobenzene	A	*19*	0.7	10		µg, Total	1	10/03/07 21:04
1,3-Dichlorobenzene	A	*ND*	0.8	10		µg, Total	1	10/03/07 21:04
1,4-Dichlorobenzene	A	*2.4*	0.9	10	J	µg, Total	1	10/03/07 21:04
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg, Total	1	10/03/07 21:04
2,4,6-Trichlorophenol	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
2,4-Dichlorophenol	A	*ND*	0.7	10		µg, Total	1	10/03/07 21:04
2,4-Dimethylphenol	A	*ND*	0.8	10		µg, Total	1	10/03/07 21:04
2,4-Dinitrophenol	A	*ND*	9.4	50		µg, Total	1	10/03/07 21:04
2,4-Dinitrotoluene	A	*ND*	0.8	10		µg, Total	1	10/03/07 21:04
2,6-Dinitrotoluene	A	*ND*	1.1	10		µg, Total	1	10/03/07 21:04
2-Chloronaphthalene	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
2-Chlorophenol	A	*ND*	0.7	10		µg, Total	1	10/03/07 21:04
2-Methylnaphthalene	A	*5.2*	0.9	10	J	µg, Total	1	10/03/07 21:04
2-Methylphenol	A	*1.1*	0.7	10	J	µg, Total	1	10/03/07 21:04
2-Nitroaniline	A	*ND*	1	50		µg, Total	1	10/03/07 21:04
2-Nitrophenol	A	*ND*	1	10		µg, Total	1	10/03/07 21:04
3,3´-Dichlorobenzidine	A	*ND*	0.7	50		µg, Total	1	10/03/07 21:04
3-Nitroaniline	A	*ND*	1.3	50		µg, Total	1	10/03/07 21:04
3/4-Methylphenol	A	*1.1*	0.8	10	J	µg, Total	1	10/03/07 21:04
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg, Total	1	10/03/07 21:04
4-Bromophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg, Total	1	10/03/07 21:04
4-Chloroaniline	A	*ND*	1	20		µg, Total	1	10/03/07 21:04
4-Chlorophenyl phenyl ether	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
4-Nitroaniline	A	*ND*	1.7	50		µg, Total	1	10/03/07 21:04
4-Nitrophenol	A	*ND*	4.3	50		µg, Total	1	10/03/07 21:04
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg, Total	1	10/03/07 21:04
Bis(2-chloroethyl)ether	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
Bis(2-ethylhexyl)phthalate	A	*5.3*	1.1	10	Jb	µg, Total	1	10/03/07 21:04
Butyl benzyl phthalate	A	*1.4*	1	10	J	µg, Total	1	10/03/07 21:04
Di-n-butyl phthalate	A	*ND*	1.2	10		µg, Total	1	10/03/07 21:04
Di-n-octyl phthalate	A	*ND*	1.1	10		µg, Total	1	10/03/07 21:04
Dibenzofuran	A	*ND*	0.8	10		µg, Total	1	10/03/07 21:04
Diethyl phthalate	A	*ND*	1.1	10		µg, Total	1	10/03/07 21:04
Dimethyl phthalate	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
Hexachlorobenzene	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:04
Hexachlorobutadiene	A	*2.7*	0.9	10	J	µg, Total	1	10/03/07 21:04
Hexachlorocyclopentadiene	A	*ND*	0.6	10		µg, Total	1	10/03/07 21:04

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #1 Offsite ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-01A
Collection Date: 09/26/07 11:04
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	10/03/07 21:04
Isophorone	A	22	1	10		µg, Total	1	10/03/07 21:04
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	10/03/07 21:04
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	10/03/07 21:04
Nitrobenzene	A	ND	1	10		µg, Total	1	10/03/07 21:04
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	10/03/07 21:04
Phenol	A	ND	0.4	10		µg, Total	1	10/03/07 21:04
Surr: 2,4,6-Tribromophenol	S	1.61	0	30-130	SI	%REC	1	10/03/07 21:04
Surr: 2-Fluorobiphenyl	S	62.8	0	30-130		%REC	1	10/03/07 21:04
Surr: 2-Fluorophenol	S	0.460	0	30-130	SI	%REC	1	10/03/07 21:04
Surr: Nitrobenzene-d5	S	56.9	0	30-130		%REC	1	10/03/07 21:04
Surr: Phenol-d5	S	43.0	0	30-130		%REC	1	10/03/07 21:04
Surr: Terphenyl-d14	S	87.5	0	30-130		%REC	1	10/03/07 21:04
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	10/04/07 00:43
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	10/04/07 00:43
Anthracene	A	ND	0.27	1.0		µg, Total	1	10/04/07 00:43
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	10/04/07 00:43
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	10/04/07 00:43
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	10/04/07 00:43
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	10/04/07 00:43
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	10/04/07 00:43
Chrysene	A	ND	0.57	1.0		µg, Total	1	10/04/07 00:43
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	10/04/07 00:43
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	10/04/07 00:43
Fluorene	A	0.51	0.25	1.0	J	µg, Total	1	10/04/07 00:43
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	10/04/07 00:43
Naphthalene	A	38	0.16	1.0		µg, Total	1	10/04/07 00:43
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	10/04/07 00:43
Pyrene	A	ND	0.44	1.0		µg, Total	1	10/04/07 00:43
Surr: Nitrobenzene-d5	S	80.0	0	30-130		%REC	1	10/04/07 00:43
Surr: 2-Fluorobiphenyl	S	65.9	0	30-130		%REC	1	10/04/07 00:43
Surr: Terphenyl-d14	S	75.6	0	30-130		%REC	1	10/04/07 00:43

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-02A
Collection Date: 09/26/07 11:15
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
1,2-Dichlorobenzene	A	16	0.7	10		µg, Total	1	10/03/07 21:28	
1,3-Dichlorobenzene	A	1.2	0.8	10	J	µg, Total	1	10/03/07 21:28	
1,4-Dichlorobenzene	A	3.4	0.9	10	J	µg, Total	1	10/03/07 21:28	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 21:28	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:28	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 21:28	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 21:28	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 21:28	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 21:28	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:28	R
2-Methylnaphthalene	A	3.5	0.9	10	J	µg, Total	1	10/03/07 21:28	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:28	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 21:28	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 21:28	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 21:28	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 21:28	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 21:28	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 21:28	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 21:28	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 21:28	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 21:28	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 21:28	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 21:28	
Bis(2-chloroethyl)ether	A	6.5	0.9	10	J	µg, Total	1	10/03/07 21:28	
Bis(2-ethylhexyl)phthalate	A	3.9	1.1	10	Jb	µg, Total	1	10/03/07 21:28	
Butyl benzyl phthalate	A	1	1	10	J	µg, Total	1	10/03/07 21:28	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 21:28	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 21:28	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 21:28	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 21:28	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 21:28	
Hexachlorobutadiene	A	4.4	0.9	10	J	µg, Total	1	10/03/07 21:28	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 21:28	

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #2 SBPA ISVE
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-02A
Collection Date: 09/26/07 11:15
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	10/03/07 21:28
Isophorone	A	*3.5*	1	10	J	µg, Total	1	10/03/07 21:28
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	10/03/07 21:28
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	10/03/07 21:28
Nitrobenzene	A	*ND*	1	10		µg, Total	1	10/03/07 21:28
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	10/03/07 21:28
Phenol	A	*ND*	0.4	10		µg, Total	1	10/03/07 21:28
Surr: 2,4,6-Tribromophenol	S	3.17	0	30-130	SI	%REC	1	10/03/07 21:28
Surr: 2-Fluorobiphenyl	S	71.4	0	30-130		%REC	1	10/03/07 21:28
Surr: 2-Fluorophenol	S	0.393	0	30-130	SI	%REC	1	10/03/07 21:28
Surr: Nitrobenzene-d5	S	66.0	0	30-130		%REC	1	10/03/07 21:28
Surr: Phenol-d5	S	46.4	0	30-130		%REC	1	10/03/07 21:28
Surr: Terphenyl-d14	S	94.1	0	30-130		%REC	1	10/03/07 21:28
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	10/04/07 01:07
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	10/04/07 01:07
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	10/04/07 01:07
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	10/04/07 01:07
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	10/04/07 01:07
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	10/04/07 01:07
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	10/04/07 01:07
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	10/04/07 01:07
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	10/04/07 01:07
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	10/04/07 01:07
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	10/04/07 01:07
Fluorene	A	*0.68*	0.25	1.0	J	µg, Total	1	10/04/07 01:07
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	10/04/07 01:07
Naphthalene	A	*11*	0.16	1.0		µg, Total	1	10/04/07 01:07
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	10/04/07 01:07
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	10/04/07 01:07
Surr: Nitrobenzene-d5	S	81.1	0	30-130		%REC	1	10/04/07 01:07
Surr: 2-Fluorobiphenyl	S	74.6	0	30-130		%REC	1	10/04/07 01:07
Surr: Terphenyl-d14	S	91.0	0	30-130		%REC	1	10/04/07 01:07

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-03A
Collection Date: 09/26/07 11:23
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
1,2-Dichlorobenzene	A	1.3	0.7	10	J	µg, Total	1	10/03/07 21:52
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 21:52
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 21:52
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:52
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 21:52
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 21:52
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 21:52
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 21:52
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:52
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 21:52
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 21:52
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 21:52
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 21:52
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 21:52
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 21:52
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 21:52
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 21:52
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 21:52
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 21:52
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 21:52
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 21:52
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
Bis(2-ethylhexyl)phthalate	A	86	1.1	10	b	µg, Total	1	10/03/07 21:52
Butyl benzyl phthalate	A	1.2	1	10	J	µg, Total	1	10/03/07 21:52
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 21:52
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 21:52
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 21:52
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 21:52
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 21:52

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #3 TOX 1 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-03A
Collection Date: 09/26/07 11:23
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	10/03/07 21:52
Isophorone	A	ND	1	10		µg, Total	1	10/03/07 21:52
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	10/03/07 21:52
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	10/03/07 21:52
Nitrobenzene	A	ND	1	10		µg, Total	1	10/03/07 21:52
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	10/03/07 21:52
Phenol	A	ND	0.4	10		µg, Total	1	10/03/07 21:52
Surr: 2,4,6-Tribromophenol	S	1.25	0	30-130	SI	%REC	1	10/03/07 21:52
Surr: 2-Fluorobiphenyl	S	60.5	0	30-130		%REC	1	10/03/07 21:52
Surr: 2-Fluorophenol	S	0.327	0	30-130	SI	%REC	1	10/03/07 21:52
Surr: Nitrobenzene-d5	S	55.9	0	30-130		%REC	1	10/03/07 21:52
Surr: Phenol-d5	S	42.3	0	30-130		%REC	1	10/03/07 21:52
Surr: Terphenyl-d14	S	84.6	0	30-130		%REC	1	10/03/07 21:52
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	10/04/07 01:31
Acenaphthylene	A	*0.66*	0.22	1.0	J	µg, Total	1	10/04/07 01:31
Anthracene	A	ND	0.27	1.0		µg, Total	1	10/04/07 01:31
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	10/04/07 01:31
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	10/04/07 01:31
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	10/04/07 01:31
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	10/04/07 01:31
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	10/04/07 01:31
Chrysene	A	ND	0.57	1.0		µg, Total	1	10/04/07 01:31
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	10/04/07 01:31
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	10/04/07 01:31
Fluorene	A	*0.31*	0.25	1.0	J	µg, Total	1	10/04/07 01:31
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	10/04/07 01:31
Naphthalene	A	*0.86*	0.16	1.0	J	µg, Total	1	10/04/07 01:31
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	10/04/07 01:31
Pyrene	A	ND	0.44	1.0		µg, Total	1	10/04/07 01:31
Surr: Nitrobenzene-d5	S	64.5	0	30-130		%REC	1	10/04/07 01:31
Surr: 2-Fluorobiphenyl	S	66.3	0	30-130		%REC	1	10/04/07 01:31
Surr: Terphenyl-d14	S	76.5	0	30-130		%REC	1	10/04/07 01:31

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 Influent (dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-04A
Collection Date: 09/26/07 11:40
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
1,2-Dichlorobenzene	A	2.3	0.7	10	J	µg, Total	1	10/03/07 22:16	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 22:16	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 22:16	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:16	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 22:16	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 22:16	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 22:16	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 22:16	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:16	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:16	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 22:16	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 22:16	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 22:16	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 22:16	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 22:16	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 22:16	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 22:16	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 22:16	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 22:16	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 22:16	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 22:16	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
Bis(2-ethylhexyl)phthalate	A	39	1.1	10	b	µg, Total	1	10/03/07 22:16	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	10/03/07 22:16	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 22:16	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 22:16	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 22:16	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 22:16	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	10/03/07 22:16	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 22:16	

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #4 TOX 1 Influent (dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-04A
Collection Date: 09/26/07 11:40
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	10/03/07 22:16
Isophorone	A	***ND***	1	10		µg, Total	1	10/03/07 22:16
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	10/03/07 22:16
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	10/03/07 22:16
Nitrobenzene	A	***ND***	1	10		µg, Total	1	10/03/07 22:16
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	10/03/07 22:16
Phenol	A	***ND***	0.4	10		µg, Total	1	10/03/07 22:16
Surr: 2,4,6-Tribromophenol	S	0.300	0	30-130	SI	%REC	1	10/03/07 22:16
Surr: 2-Fluorobiphenyl	S	63.9	0	30-130		%REC	1	10/03/07 22:16
Surr: 2-Fluorophenol	S	0.347	0	30-130	SI	%REC	1	10/03/07 22:16
Surr: Nitrobenzene-d5	S	59.8	0	30-130		%REC	1	10/03/07 22:16
Surr: Phenol-d5	S	39.9	0	30-130		%REC	1	10/03/07 22:16
Surr: Terphenyl-d14	S	88.3	0	30-130		%REC	1	10/03/07 22:16
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Acenaphthene	A	***0.97***	0.21	1.0	J	µg, Total	1	10/04/07 01:56
Acenaphthylene	A	***ND***	0.22	1.0		µg, Total	1	10/04/07 01:56
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	10/04/07 01:56
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	10/04/07 01:56
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	10/04/07 01:56
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	10/04/07 01:56
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	10/04/07 01:56
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	10/04/07 01:56
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	10/04/07 01:56
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	10/04/07 01:56
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	10/04/07 01:56
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	10/04/07 01:56
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	10/04/07 01:56
Naphthalene	A	***1.8***	0.16	1.0		µg, Total	1	10/04/07 01:56
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	10/04/07 01:56
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	10/04/07 01:56
Surr: Nitrobenzene-d5	S	69.3	0	30-130		%REC	1	10/04/07 01:56
Surr: 2-Fluorobiphenyl	S	64.7	0	30-130		%REC	1	10/04/07 01:56
Surr: Terphenyl-d14	S	86.3	0	30-130		%REC	1	10/04/07 01:56

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-05A
Collection Date: 09/26/07 13:50
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	10/03/07 22:41	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 22:41	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 22:41	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:41	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 22:41	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 22:41	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 22:41	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 22:41	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:41	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 22:41	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 22:41	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 22:41	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 22:41	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 22:41	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 22:41	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 22:41	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 22:41	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 22:41	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 22:41	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 22:41	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 22:41	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
Bis(2-ethylhexyl)phthalate	A	3.3	1.1	10	Jb	µg, Total	1	10/03/07 22:41	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	10/03/07 22:41	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 22:41	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 22:41	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 22:41	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 22:41	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	10/03/07 22:41	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 22:41	

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #5 TOX 1 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-05A
Collection Date: 09/26/07 13:50
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	ND	0.9	10		µg, Total	1	10/03/07 22:41
Isophorone	A	ND	1	10		µg, Total	1	10/03/07 22:41
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	10/03/07 22:41
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	10/03/07 22:41
Nitrobenzene	A	ND	1	10		µg, Total	1	10/03/07 22:41
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	10/03/07 22:41
Phenol	A	ND	0.4	10		µg, Total	1	10/03/07 22:41
Surr: 2,4,6-Tribromophenol	S	1.27	0	30-130	SI	%REC	1	10/03/07 22:41
Surr: 2-Fluorobiphenyl	S	60.1	0	30-130		%REC	1	10/03/07 22:41
Surr: 2-Fluorophenol	S	0.233	0	30-130	SI	%REC	1	10/03/07 22:41
Surr: Nitrobenzene-d5	S	55.7	0	30-130		%REC	1	10/03/07 22:41
Surr: Phenol-d5	S	35.7	0	30-130		%REC	1	10/03/07 22:41
Surr: Terphenyl-d14	S	87.5	0	30-130		%REC	1	10/03/07 22:41
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	10/04/07 02:21
Acenaphthylene	A	ND	0.22	1.0		µg, Total	1	10/04/07 02:21
Anthracene	A	ND	0.27	1.0		µg, Total	1	10/04/07 02:21
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	10/04/07 02:21
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	10/04/07 02:21
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	10/04/07 02:21
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	10/04/07 02:21
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	10/04/07 02:21
Chrysene	A	ND	0.57	1.0		µg, Total	1	10/04/07 02:21
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	10/04/07 02:21
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	10/04/07 02:21
Fluorene	A	ND	0.25	1.0		µg, Total	1	10/04/07 02:21
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	10/04/07 02:21
Naphthalene	A	ND	0.16	1.0		µg, Total	1	10/04/07 02:21
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	10/04/07 02:21
Pyrene	A	ND	0.44	1.0		µg, Total	1	10/04/07 02:21
Surr: Nitrobenzene-d5	S	67.3	0	30-130		%REC	1	10/04/07 02:21
Surr: 2-Fluorobiphenyl	S	65.1	0	30-130		%REC	1	10/04/07 02:21
Surr: Terphenyl-d14	S	82.0	0	30-130		%REC	1	10/04/07 02:21

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-06A
Collection Date: 09/26/07 09:57
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
1,2-Dichlorobenzene	A	15	0.7	10		µg, Total	1	10/03/07 23:05	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 23:05	
1,4-Dichlorobenzene	A	1.9	0.9	10	J	µg, Total	1	10/03/07 23:05	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 23:05	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:05	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:05	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 23:05	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 23:05	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 23:05	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:05	R
2-Methylnaphthalene	A	1.6	0.9	10	J	µg, Total	1	10/03/07 23:05	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:05	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 23:05	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 23:05	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 23:05	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 23:05	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:05	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 23:05	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 23:05	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 23:05	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 23:05	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 23:05	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 23:05	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
Bis(2-ethylhexyl)phthalate	A	19	1.1	10	b	µg, Total	1	10/03/07 23:05	
Butyl benzyl phthalate	A	1.1	1	10	J	µg, Total	1	10/03/07 23:05	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 23:05	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 23:05	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 23:05	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 23:05	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:05	
Hexachlorobutadiene	A	1.8	0.9	10	J	µg, Total	1	10/03/07 23:05	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 23:05	

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #6 TOX 2 Influent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-06A
Collection Date: 09/26/07 09:57
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Hexachloroethane	A	ND	0.9	10		µg, Total	1	10/03/07 23:05
Isophorone	A	10	1	10		µg, Total	1	10/03/07 23:05
N-Nitrosodi-n-propylamine	A	ND	1	10		µg, Total	1	10/03/07 23:05
N-Nitrosodiphenylamine	A	ND	0.7	10		µg, Total	1	10/03/07 23:05
Nitrobenzene	A	ND	1	10		µg, Total	1	10/03/07 23:05
Pentachlorophenol	A	ND	1.3	50		µg, Total	1	10/03/07 23:05
Phenol	A	ND	0.4	10		µg, Total	1	10/03/07 23:05
Surr: 2,4,6-Tribromophenol	S	0.827	0	30-130	SI	%REC	1	10/03/07 23:05
Surr: 2-Fluorobiphenyl	S	62.1	0	30-130		%REC	1	10/03/07 23:05
Surr: 2-Fluorophenol	S	0.613	0	30-130	SI	%REC	1	10/03/07 23:05
Surr: Nitrobenzene-d5	S	55.9	0	30-130		%REC	1	10/03/07 23:05
Surr: Phenol-d5	S	40.4	0	30-130		%REC	1	10/03/07 23:05
Surr: Terphenyl-d14	S	78.7	0	30-130		%REC	1	10/03/07 23:05
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**		Analyst: **BEM**
Acenaphthene	A	ND	0.21	1.0		µg, Total	1	10/04/07 02:46
Acenaphthylene	A	0.44	0.22	1.0	J	µg, Total	1	10/04/07 02:46
Anthracene	A	ND	0.27	1.0		µg, Total	1	10/04/07 02:46
Benzo[a]anthracene	A	ND	0.47	1.0		µg, Total	1	10/04/07 02:46
Benzo[a]pyrene	A	ND	0.38	1.0		µg, Total	1	10/04/07 02:46
Benzo[b]fluoranthene	A	ND	0.44	1.0		µg, Total	1	10/04/07 02:46
Benzo[g,h,i]perylene	A	ND	0.72	1.0		µg, Total	1	10/04/07 02:46
Benzo[k]fluoranthene	A	ND	0.8	1.0		µg, Total	1	10/04/07 02:46
Chrysene	A	ND	0.57	1.0		µg, Total	1	10/04/07 02:46
Dibenz[a,h]anthracene	A	ND	0.54	1.0		µg, Total	1	10/04/07 02:46
Fluoranthene	A	ND	0.39	1.0		µg, Total	1	10/04/07 02:46
Fluorene	A	ND	0.25	1.0		µg, Total	1	10/04/07 02:46
Indeno[1,2,3cd]pyrene	A	ND	0.56	1.0		µg, Total	1	10/04/07 02:46
Naphthalene	A	14	0.16	1.0		µg, Total	1	10/04/07 02:46
Phenanthrene	A	ND	0.27	1.0		µg, Total	1	10/04/07 02:46
Pyrene	A	ND	0.44	1.0		µg, Total	1	10/04/07 02:46
Surr: Nitrobenzene-d5	S	74.4	0	30-130		%REC	1	10/04/07 02:46
Surr: 2-Fluorobiphenyl	S	66.1	0	30-130		%REC	1	10/04/07 02:46
Surr: Terphenyl-d14	S	78.0	0	30-130		%REC	1	10/04/07 02:46

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 Influent (dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-07A
Collection Date: 09/26/07 10:18
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
1,2-Dichlorobenzene	A	5.5	0.7	10	J	µg, Total	1	10/03/07 23:29	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 23:29	
1,4-Dichlorobenzene	A	0.94	0.9	10	J	µg, Total	1	10/03/07 23:29	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 23:29	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:29	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:29	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 23:29	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 23:29	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 23:29	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:29	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:29	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 23:29	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 23:29	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 23:29	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 23:29	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:29	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 23:29	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 23:29	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 23:29	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 23:29	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 23:29	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 23:29	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
Bis(2-ethylhexyl)phthalate	A	150	1.1	10	b	µg, Total	1	10/03/07 23:29	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	10/03/07 23:29	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 23:29	
Di-n-octyl phthalate	A	2	1.1	10	J	µg, Total	1	10/03/07 23:29	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 23:29	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 23:29	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	10/03/07 23:29	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 23:29	

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #7 TOX 2 Influent (dup)
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-07A
Collection Date: 09/26/07 10:18
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	***ND***	0.9	10		µg, Total	1	10/03/07 23:29
Isophorone	A	***4.2***	1	10	J	µg, Total	1	10/03/07 23:29
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg, Total	1	10/03/07 23:29
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg, Total	1	10/03/07 23:29
Nitrobenzene	A	***ND***	1	10		µg, Total	1	10/03/07 23:29
Pentachlorophenol	A	***ND***	1.3	50		µg, Total	1	10/03/07 23:29
Phenol	A	***ND***	0.4	10		µg, Total	1	10/03/07 23:29
Surr: 2,4,6-Tribromophenol	S	2.95	0	30-130	SI	%REC	1	10/03/07 23:29
Surr: 2-Fluorobiphenyl	S	74.2	0	30-130		%REC	1	10/03/07 23:29
Surr: 2-Fluorophenol	S	0.280	0	30-130	SI	%REC	1	10/03/07 23:29
Surr: Nitrobenzene-d5	S	64.3	0	30-130		%REC	1	10/03/07 23:29
Surr: Phenol-d5	S	47.5	0	30-130		%REC	1	10/03/07 23:29
Surr: Terphenyl-d14	S	99.4	0	30-130		%REC	1	10/03/07 23:29
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	***ND***	0.21	1.0		µg, Total	1	10/04/07 03:10
Acenaphthylene	A	***0.35***	0.22	1.0	J	µg, Total	1	10/04/07 03:10
Anthracene	A	***ND***	0.27	1.0		µg, Total	1	10/04/07 03:10
Benzo[a]anthracene	A	***ND***	0.47	1.0		µg, Total	1	10/04/07 03:10
Benzo[a]pyrene	A	***ND***	0.38	1.0		µg, Total	1	10/04/07 03:10
Benzo[b]fluoranthene	A	***ND***	0.44	1.0		µg, Total	1	10/04/07 03:10
Benzo[g,h,i]perylene	A	***ND***	0.72	1.0		µg, Total	1	10/04/07 03:10
Benzo[k]fluoranthene	A	***ND***	0.8	1.0		µg, Total	1	10/04/07 03:10
Chrysene	A	***ND***	0.57	1.0		µg, Total	1	10/04/07 03:10
Dibenz[a,h]anthracene	A	***ND***	0.54	1.0		µg, Total	1	10/04/07 03:10
Fluoranthene	A	***ND***	0.39	1.0		µg, Total	1	10/04/07 03:10
Fluorene	A	***ND***	0.25	1.0		µg, Total	1	10/04/07 03:10
Indeno[1,2,3cd]pyrene	A	***ND***	0.56	1.0		µg, Total	1	10/04/07 03:10
Naphthalene	A	***5.7***	0.16	1.0		µg, Total	1	10/04/07 03:10
Phenanthrene	A	***ND***	0.27	1.0		µg, Total	1	10/04/07 03:10
Pyrene	A	***ND***	0.44	1.0		µg, Total	1	10/04/07 03:10
Surr: Nitrobenzene-d5	S	79.8	0	30-130		%REC	1	10/04/07 03:10
Surr: 2-Fluorobiphenyl	S	77.5	0	30-130		%REC	1	10/04/07 03:10
Surr: Terphenyl-d14	S	90.6	0	30-130		%REC	1	10/04/07 03:10

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ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-08A
Collection Date: 09/26/07 10:25
Date Received: 09/26/07 14:50

SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD** Prep Date/Time: **10/02/07 00:00** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
1,2,4-Trichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
1,2-Dichlorobenzene	A	ND	0.7	10		µg, Total	1	10/03/07 23:54	
1,3-Dichlorobenzene	A	ND	0.8	10		µg, Total	1	10/03/07 23:54	
1,4-Dichlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
2,4,5-Trichlorophenol	A	ND	1.5	10		µg, Total	1	10/03/07 23:54	R
2,4,6-Trichlorophenol	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
2,4-Dichlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:54	
2,4-Dimethylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:54	
2,4-Dinitrophenol	A	ND	9.4	50		µg, Total	1	10/03/07 23:54	
2,4-Dinitrotoluene	A	ND	0.8	10		µg, Total	1	10/03/07 23:54	
2,6-Dinitrotoluene	A	ND	1.1	10		µg, Total	1	10/03/07 23:54	
2-Chloronaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
2-Chlorophenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:54	R
2-Methylnaphthalene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
2-Methylphenol	A	ND	0.7	10		µg, Total	1	10/03/07 23:54	R
2-Nitroaniline	A	ND	1	50		µg, Total	1	10/03/07 23:54	
2-Nitrophenol	A	ND	1	10		µg, Total	1	10/03/07 23:54	R
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg, Total	1	10/03/07 23:54	
3-Nitroaniline	A	ND	1.3	50		µg, Total	1	10/03/07 23:54	
3/4-Methylphenol	A	ND	0.8	10		µg, Total	1	10/03/07 23:54	R
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg, Total	1	10/03/07 23:54	R
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
4-Chloro-3-methylphenol	A	ND	1.2	20		µg, Total	1	10/03/07 23:54	R
4-Chloroaniline	A	ND	1	20		µg, Total	1	10/03/07 23:54	
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
4-Nitroaniline	A	ND	1.7	50		µg, Total	1	10/03/07 23:54	
4-Nitrophenol	A	ND	4.3	50		µg, Total	1	10/03/07 23:54	R
Bis(2-chloroethoxy)methane	A	ND	1	10		µg, Total	1	10/03/07 23:54	
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
Bis(2-ethylhexyl)phthalate	A	16	1.1	10	b	µg, Total	1	10/03/07 23:54	
Butyl benzyl phthalate	A	ND	1	10		µg, Total	1	10/03/07 23:54	
Di-n-butyl phthalate	A	ND	1.2	10		µg, Total	1	10/03/07 23:54	
Di-n-octyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 23:54	
Dibenzofuran	A	ND	0.8	10		µg, Total	1	10/03/07 23:54	
Diethyl phthalate	A	ND	1.1	10		µg, Total	1	10/03/07 23:54	
Dimethyl phthalate	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
Hexachlorobenzene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
Hexachlorobutadiene	A	ND	0.9	10		µg, Total	1	10/03/07 23:54	
Hexachlorocyclopentadiene	A	ND	0.6	10		µg, Total	1	10/03/07 23:54	

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CMS 2/14/08

Microbac

ANALYTICAL RESULTS

Date: *Thursday, November 01, 2007*

Client: MWH, Inc.
Client Project: Sept. 2007 - Monthly Air / ACS
Client Sample ID: #8 TOX 2 Effluent
Sample Description:
Sample Matrix: Air

Work Order / ID: ME0709A63-08A
Collection Date: 09/26/07 10:25
Date Received: 09/26/07 14:50

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
SEMI-VOLATILE ORGANIC ANALYTE Method: **TO-13MOD**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Hexachloroethane	A	*ND*	0.9	10		µg, Total	1	10/03/07 23:54
Isophorone	A	*ND*	1	10		µg, Total	1	10/03/07 23:54
N-Nitrosodi-n-propylamine	A	*ND*	1	10		µg, Total	1	10/03/07 23:54
N-Nitrosodiphenylamine	A	*ND*	0.7	10		µg, Total	1	10/03/07 23:54
Nitrobenzene	A	*ND*	1	10		µg, Total	1	10/03/07 23:54
Pentachlorophenol	A	*ND*	1.3	50		µg, Total	1	10/03/07 23:54
Phenol	A	*ND*	0.4	10		µg, Total	1	10/03/07 23:54
Surr: 2,4,6-Tribromophenol	S	1.61	0	30-130	SI	%REC	1	10/03/07 23:54
Surr: 2-Fluorobiphenyl	S	60.6	0	30-130		%REC	1	10/03/07 23:54
Surr: 2-Fluorophenol	S	0.220	0	30-130	SI	%REC	1	10/03/07 23:54
Surr: Nitrobenzene-d5	S	56.7	0	30-130		%REC	1	10/03/07 23:54
Surr: Phenol-d5	S	44.1	0	30-130		%REC	1	10/03/07 23:54
Surr: Terphenyl-d14	S	83.4	0	30-130		%REC	1	10/03/07 23:54
PAHS BY GC/MS-SIM Method: **TO-13**						Prep Date/Time: **10/02/07 00:00**	Analyst: **BEM**	
Acenaphthene	A	*ND*	0.21	1.0		µg, Total	1	10/04/07 03:35
Acenaphthylene	A	*ND*	0.22	1.0		µg, Total	1	10/04/07 03:35
Anthracene	A	*ND*	0.27	1.0		µg, Total	1	10/04/07 03:35
Benzo[a]anthracene	A	*ND*	0.47	1.0		µg, Total	1	10/04/07 03:35
Benzo[a]pyrene	A	*ND*	0.38	1.0		µg, Total	1	10/04/07 03:35
Benzo[b]fluoranthene	A	*ND*	0.44	1.0		µg, Total	1	10/04/07 03:35
Benzo[g,h,i]perylene	A	*ND*	0.72	1.0		µg, Total	1	10/04/07 03:35
Benzo[k]fluoranthene	A	*ND*	0.8	1.0		µg, Total	1	10/04/07 03:35
Chrysene	A	*ND*	0.57	1.0		µg, Total	1	10/04/07 03:35
Dibenz[a,h]anthracene	A	*ND*	0.54	1.0		µg, Total	1	10/04/07 03:35
Fluoranthene	A	*ND*	0.39	1.0		µg, Total	1	10/04/07 03:35
Fluorene	A	*ND*	0.25	1.0		µg, Total	1	10/04/07 03:35
Indeno[1,2,3cd]pyrene	A	*ND*	0.56	1.0		µg, Total	1	10/04/07 03:35
Naphthalene	A	*ND*	0.16	1.0		µg, Total	1	10/04/07 03:35
Phenanthrene	A	*ND*	0.27	1.0		µg, Total	1	10/04/07 03:35
Pyrene	A	*ND*	0.44	1.0		µg, Total	1	10/04/07 03:35
Surr: Nitrobenzene-d5	S	69.0	0	30-130		%REC	1	10/04/07 03:35
Surr: 2-Fluorobiphenyl	S	64.9	0	30-130		%REC	1	10/04/07 03:35
Surr: Terphenyl-d14	S	77.0	0	30-130		%REC	1	10/04/07 03:35

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