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QUARTERLY MONITORING REPORT
ACTIVE TREATMENT SYSTEMS
SECOND QUARTER 2003

AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA

MWH File No. 2090601

Prepared For:

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

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Prepared For:

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

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1.0 INTRODUCTION

MWH, on behalf of the ACS RD/RA Executive Committee, started up the on-site groundwater treatment system at the American Chemical Service 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, a 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.

In the fall of 2001, MWH began construction of an In-Situ Vapor Extraction (ISVE) system for the Off-Site Containment Area (OFCA) and the Kapica-Pazmey (K-P) Area, both within the area known as the Off-Site Area. The Off-Site Area ISVE System consists of 42 ISVE wells, blower system, a thermal oxidizer/scrubber unit, and associated mechanical and electrical components. The construction of the system was completed at the end of March 2002. System operation began on May 1, 2002 after the startup of the thermal oxidizer and scrubber system was completed. Protocols and goals for the phased startup of the Off-Site System as defined in the Final Remedy (Montgomery Watson, 1999) were followed.

The goals of the initial system operation (0 to 12 months) as defined in the Technical Memorandum for ACS Off-Site ISVE System Evaluation (MWH, July 2003) were:

1. To establish that all wells were constructed properly and had maintained their integrity throughout subsequent site activities (Wellfield Evaluation); and

2. To evaluate the capability of the system to meet system performance goals as established by the Final Remedy (System Evaluation).

This Active Treatment Systems report summarizes effluent analytical data, catalytic oxidizer/scrubber (annually) and thermal oxidizer off-gas analytical data, ISVE process monitoring data, and water level gauging data collected from April 2003 through June 2003. This report also details modifications or upgrades to the active treatment systems during the reporting period.

2.0 GWTP COMPLIANCE MONITORING

2.1 INTRODUCTION

Effluent samples are collected on a regular schedule from the treatment system to demonstrate compliance with the discharge limits (Table 2.1) established by Indiana Department of Environmental Management (IDEM) and United States Environmental Protection Agency (U.S. EPA). The approved Performance Standard Verification Plan (PSVP) requires quarterly effluent sampling for biological 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 shown in the table below. In accordance with the PSVP, a full monthly effluent compliance sample was collected during April and analyzed for all of the analytes listed above. During May and June, the monthly effluent compliance samples were analyzed for VOCs and pH only.

Sampling and analyses were performed in accordance with the Quality Assurance Project Plan (QAPP) prepared by MWH for the ACS RD/RA Executive Committee in March 2001 and approved by the Agencies in November 2001. 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 was started up on March 13, 1997

2.2 EFFLUENT SAMPLING AND ANALYSES

Effluent samples were collected each month during the second quarter 2003. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

April 8, 2003	full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs, pentachlorophenol, and PCBs)
May 15, 2003	pH and VOCs
June 30, 2003	pH and VOCs

The above samples were collected directly from a sampling tap 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)	SW-846 6010
General Water Quality Parameters (TSS and BOD-5)	EPA 160.2 and 405.1
Mercury	SW-846 7470
pH	EPA 150.1

2.3 EFFLUENT ANALYTICAL RESULTS

The GWTP effluent monitoring data, summarized in Table 2.2, verify that the system effluent was compliant with the discharge limits presented in Table 2.1. No exceedences were reported. The analytical data sheets for the compliance samples are provided in Appendix A.

Compuchem Laboratory of Cary, North Carolina 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. Validation qualifiers are listed in Table 2.2 and are written in the margin of the analytical data sheets provided in Appendix A.

2.4 CATALYTIC OXIDIZER/SCRUBBER SAMPLING AND ANALYSIS

MWH began eight initial rounds of off-gas sampling of the catalytic oxidizer/scrubber described in the PSVP (MWH, April 1997) during April 2002. The eight rounds of sampling were completed during the third quarter of 2002. One additional sample was collected in October 2002 to verify the continued performance of the system. The off-gas was also sampled in December 2002 after repairs were made to the catalytic oxidizer/scrubber unit to ensure the unit was working properly. As discussed in the November 2002 monthly status report, the off-gas sample from the catalytic oxidizer/scrubber will be sampled annually, in accordance with Indiana Department of Environmental Management (IDEM) regulations and

the PSVP. The 2003 annual sample was collected on June 5, 2003 and analyzed for VOCs and SVOCs.

The samples were collected directly from a sample tap on the influent and effluent lines of the catalytic oxidizer/scrubber. One influent sample (labeled IN1) and one effluent sample (EF1) were collected. A duplicate influent sample (IN2) was also collected. The samples were collected to comply with the PSVP and QAPP and in accordance with the QAPP and laboratory guidelines. The VOC sample was collected using a summa canister and the SVOC sample was collected in sorbent tubes.

Following sample collection, the SVOC sample containers were refrigerated 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 for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed for the following parameters by the following analytical methods:

Parameter	Analytical Method
VOCs	TO-14
SVOCs	TO-13

Sampling Results

The influent and effluent off-gas data summarized in Tables 2.3 and 2.4, verify that the off-gas from the catalytic oxidizer was less than the IDEM discharge limit of three pounds per hour VOC discharge. The analytical data sheets for the compliance samples are provided in Appendix B.

Air Toxics Laboratories of Folsom, California analyzed the samples. The analytical results are summarized in Tables 2.3 and 2.4. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Tables 2.3 and 2.4 and are written in the margin of the analytical data sheets provided in Appendix B.

3.0 OFCA/KP AREA ISVE SYSTEM MONITORING

Thermal Oxidizer Off-Gas Sampling

In January 2002, a thermal oxidizer/scrubber (therm-ox) unit manufactured by Durr Engineering (Durr) was installed in the GWTP to treat the vapor collected by the Off-Site Area ISVE systems. Monthly compliance sampling began in April 2002 when the system was fully operational. In April 2003, a second thermal oxidizer/scrubber unit, manufactured by Global Engineering (Global), was installed at the Site. The unit was designated as Therm Ox 2. The installation and start up of Therm Ox 2 was completed at the end of May and vapors from the Off-Site ISVE system were sent to the unit beginning on June 5th. At this time, Therm Ox 1 was taken off-line for maintenance and upgrades. Therm Ox 2 continued to treat the Off-Site ISVE vapors until June 19th, when a fouled flow switch caused the unit to shut down. The Off-Site ISVE vapors were redirected to Therm Ox 1 while the flow switch in Therm Ox 2 was repaired. The switch was repaired on June 30th and the vapors were directed back to Therm Ox 2.

In the second quarter of 2003, compliance samples were collected on May 1, May 8, June 13, and June 26. Additional samples, used to monitor the performance of the ISVE system, were collected on April 10, May 15, and May 27. Influent and effluent off-gas samples were collected directly from sampling taps on the influent pipe to the thermal-oxidizer and the discharge stack of the scrubber. One influent sample (labeled IN1) and one effluent sample (EF1) were collected. A duplicate influent sample (IN2) 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 SVOC sample containers were 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 for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed by the following analytical methods:

Parameter	Analytical Method
VOCs	TO-14
SVOCs	TO-13

Sampling Results

The influent and effluent off-gas data summarized in Tables 3.1 and 3.2, verify that total organics in the off-gas from the thermal oxidizer was less than the IDEM discharge limit of three pounds per hour VOC discharge for May and June. The analytical data sheets for the compliance samples are provided in Appendix C.

Compliance samples were not collected in April because the system was shutdown for maintenance throughout most of April.
Air Toxics Laboratories of Folsom, California analyzed the samples. The analytical results are summarized in Tables 3.1 and 3.2. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Tables 3.1 and 3.2 and are written in the margin of the analytical data sheets provided in Appendix C.

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 vacuums at individual ISVE wells and headers were collected on a routine basis. Additionally, VOC concentrations were measured at individual wells and headers using a flame/photo ionization detector (FID/PID).

The information collected during performance monitoring is used to evaluate and optimize the ISVE system. Data collected during the second quarter of 2003 is presented in Tables 3.3 and 3.4.

4.0 GWTP TREATMENT SYSTEM PROCESS MODIFICATIONS

During the second quarter of 2003, minor modifications were made in the GWTP treatment system process. The modifications are summarized below.

A new thermal oxidizer/scrubber unit and blower unit for the SBPA ISVE system were installed in the GWTP. All electrical and control connections and piping were installed during the second quarter. Programming of the interlocks for the new SBPA ISVE system was completed during the second quarter. The installation and startup of the new thermal oxidizer/scrubber unit was completed at the end of May. Vapor from the Off-Site ISVE system was sent to the unit for treatment starting on June 5th.

The catalyst from the catalytic oxidizer unit was removed, cleaned, and replaced on May 13th after a high pressure alarm from the unit sounded.

5.0 OFCA/K-P AREA ISVE PROCESS MODIFICATION

Regular maintenance was performed on the Off-Site Area ISVE System components during the second quarter of 2003. In addition, the number of wells vapor was being extracted from was reduced from sixteen to eight. This was done as part of a system evaluation program to determine any change in the mass of VOCs extracted from individual wells if the airflow from each well is doubled. This process change was the final portion of the ISVE system optimization testing.

6.0 PGCS AND BWES GAUGING ACTIVITIES

The Perimeter Groundwater Containment System (PGCS) groundwater extraction trenches were operated in "auto" mode continuously throughout the second quarter of 2003. In "auto" mode, the PGCS extraction wells will pump continuously unless there is a high water level in Aeration Equalization Tank (T-102) or a low water level in individual extraction wells. 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 Barrier Wall Extraction System (BWES) and the SBPA dual-phase extraction (DPE) wells during the second quarter of 2003.

In accordance with the PSVP for the Site, 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 April, May, and June 2003. Groundwater elevation measurements were collected throughout the Site on June 18, 2003 as part of the groundwater monitoring program. The groundwater elevations and resulting contours outside the barrier wall are shown in Table 6.1 and on Figure 6.1. The water table contours shown on Figure 6.1 indicate that the PGCS continues to create a depression in the water table, which acts to contain groundwater flowing around the northern edge of the barrier wall.

The barrier wall was constructed to contain a contaminated zone under the Site, and the BWES was installed to dewater the Site for the ISVE system. Piezometers were installed in pairs, 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 ensure that the barrier wall is serving its designed function.

Table 6.1, BWES Water Level and Piezometer Pairs, presents the groundwater elevations inside and outside the barrier wall on June 18, 2003. They are illustrated on Figure 6.2. The groundwater elevation measurements were generally 2.19 feet to 8.34 feet higher outside the barrier wall. The data demonstrate that the barrier wall is successfully performing the intended function of isolating and protecting the groundwater outside the barrier wall from the known source areas of the Site inside the barrier wall. In the past, conditions at the Site have caused the water levels to be higher inside the barrier wall than the levels outside the barrier wall at piezometer pair P-107 and P-108. However, the completion of the interim cover in the Still Bottoms Pond Area (SBPA) and the startup of the dual phase extraction wells in the SBPA, in conjunction with the continued dewatering by extraction trench EW-18, have lowered the water level inside the barrier wall at this point. MWH will continue to collect regular water level measurements 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 and active dewatering of the SBPA by the addition of the DPE wells on February 11, 2003. To keep track of the dewatering progress inside the barrier wall, water levels were collected from the various piezometers and air sparge (AS) wells on a regular

basis, as shown in Table 6.2. Water levels were regularly measured at seven piezometers in the On-Site Area throughout the quarter (P29, P31, P32, P36, P49, P-106, and P-108) and at seven piezometers and three air sparge wells in the Off-Site Area (P96, P110, P112, P113, P114, P116, P118, AS-7, AS-8, and AS-9). The water level data from these piezometers and AS wells are depicted graphically on Figures 6.3 and 6.4, which also reference the target water levels for each area. The target water levels were established to enhance the operation of the in-situ soil vapor extraction (ISVE) system. As depicted on Figure 6.4, dewatering in the Off-Site Area has effectively achieved the target elevation in all the monitoring wells. Figure 6.3 shows that the water level at several wells were below the target elevation prior to dewatering beginning in the SBPA. This may be attributed to seasonal depression of the water table at these wells.

7.0 SYSTEM OPERATION

The GWTP operated as designed for approximately 70 percent of the 2nd quarter of 2003 (based on days of operation). The system drew influent from the On-Site Area BWES, the Off-Site Area BWES, and the PGCS. The flowrate was reduced in June due to fouling of the granular activated carbon units and the sand filter. The system was run at the reduced flowrate and only during the day until the units could be changed out in the middle of the month. Once the change out was complete, the GWTP ran in recirculation mode until almost the end of June. The GWTP was then returned to normal operation.

The Off-Site Area ISVE system continued to operate as designed for 75 percent of the 2nd quarter of 2003 (based on days of operation). The system was shut down for routine maintenance and to install the new thermal oxidizer unit manufactured by Global Engineering. Vapors were sent to the new thermal oxidizer unit in May.

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Tables

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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	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	0.00056 µg/L (w/DL = 0.1 to 0.9)

Notes:

NE = No effluent limit established.

DL = Detection limit

Table 2.2
Summary of Effluent Analytical Results - Second Quarter 2003
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

Event Date	Month 71 4/8/2003	Month 72 5/15/2003	Month 73 6/30/2003	Effluent Limits	Lab Reporting
pH	7.45	7.37	8.63	6-9	none
TSS	ND	NS	NS	30	10
BOD	ND	NS	NS	30	2
Arsenic	ND	NS	NS	50	3.4
Beryllium	0.27 B/UB	NS	NS	NE	0.2
Cadmium	ND	NS	NS	4.1	0.3
Manganese	24.6 /B	NS	NS	NE	10
Mercury	ND /UJ	NS	NS	0.02 (w/DL = 0.64)	0.64
Selenium	ND	NS	NS	8.2	4.3
Thallium	ND /UJ	NS	NS	NE	5.7
Zinc	ND	NS	NS	411	1.2
Benzene	ND	ND	ND	5	0.5
Acetone	1 JB/3UBJ	5 B/UBJ	ND	6,800	3
2-Butanone	ND	5	ND	210	3
Chloromethane	ND	ND	0.2 JB/0.5UB	NE	0.5
1,4-Dichlorobenzene	ND	ND	ND	NE	0.5
1,1-Dichloroethane	ND	ND	ND	NE	0.5
cis-1,2-Dichloroethene	ND	ND	ND	70	0.5
Ethylbenzene	ND	ND	ND	34	0.5
Methylene chloride	ND	0.3 J/	0.3 JB/0.5 UB	5	0.6
Tetrachloroethene	ND	ND	ND	5	0.5
Trichloroethene	ND	ND	ND	5	0.5
Vinyl chloride	ND	ND	ND	2	0.5
4-Methyl-2-pentanone	ND	ND	0.2 J/	15	3
bis (2-Chloroethyl) ether	ND	NS	NS	9.6	9.6
bis(2-Ethylhexyl) - phthalate	ND	NS	NS	6	6
4 - Methylphenol	ND	NS	NS	34	10
Isophorone	ND	NS	NS	50	10
Pentachlorophenol	0.7 J/	NS	NS	1	1
PCB/Aroclor-1016	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1221	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.92*
PCB/Aroclor-1232	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1242	ND /UJ	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1248	ND /UJ	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1254	ND /UJ	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1260	ND /UJ	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5

Notes:
pH data is expressed in S.U.
Metals, VOC, SVOC and PCB data is expressed in µg/L
µg/L = micrograms per liter
ND = Not detected
NS = This analyte was not sampled or analyzed for
NE = No effluent limit established.
NA = Sample not analyzed for this compound
DL = detection limit
* = Approved SW-846 method is incapable of achieving effluent limit.

Suffix Definitions:
_/ = Data qualifier added by laboratory
/_ = Data qualifier added by data validator
B = Compound is also detected in the blank
J = Result is detected below the reporting limit and is an estimated concentration
concentration and the compound is also detected in the method blank resulting in a potential high bias
U = Analyte is not detected at or above the indicated concentration
UB = Analyte is not detected at or above the indicated concentration due to blank contamination
UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value

Table 2.3
Summary of Catalytic Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Services
Griffith, Indiana

		Sampled 6/05/2003								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EFF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	18		21		0.76		95.78%	96.38%	96.08%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	2.2	J	ND	U	NC	NC	NC
1,1-Dichloroethane	ppbv	1.4	J	1.2	J	0.20	J	NC	NC	NC
1,1-Dichloroethene	ppbv	ND	U	ND	U	0.80		NC	NC	NC
1,2-Dichloroethane	ppbv	1.1	J	ND	U	0.11	J	NC	NC	NC
1,2-Dichloropropane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	3.2	J	3.6	J	2.5	J	NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	ND	U	ND	U	0.40	J	NC	NC	NC
Acetone	ppbv	1,100		1,300		60		94.55%	95.38%	94.97%
Benzene	ppbv	13		14		11		15.38%	21.43%	18.41%
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	0.84		NC	NC	NC
Carbon Disulfide	ppbv	ND	U	ND	U	0.43	J	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chlorobenzene	ppbv	ND	U	1.1	J	0.52	J	NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	1.3		NC	NC	NC
Chloroform	ppbv	ND	U	ND	U	0.37	J	NC	NC	NC
Chloromethane	ppbv	4.1	J	ND	U	1.3		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	16		18		12		25.00%	33.33%	29.17%
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	180		200		8.3		95.39%	95.85%	95.62%
m,p-Xylene	ppbv	870		990		40		95.40%	95.96%	95.68%
Methylene Chloride	ppbv	4.8	J	5.5	J	1.2		NC	NC	NC
o-Xylene	ppbv	360		420		16		95.56%	96.19%	95.87%
Styrene	ppbv	ND	U	ND	U	1.2		NC	NC	NC
Tetrachloroethene	ppbv	130		140		26		80.00%	81.43%	80.71%
Toluene	ppbv	260		300		16		93.85%	94.67%	94.26%
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	22		27		1.8		91.82%	93.33%	92.58%
Vinyl Chloride	ppbv	1.5	J	1.6	J	1.2		NC	NC	NC
Total	**ppbv**	**2,985**		**3,445**		**204.23**		**93.16%**	**94.07%**	**93.61%**
Total	**lb/hr**	**0.018**		**0.020**		**0.001**		**94.44%**	**95.00%**	**94.72%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
effluent values are estimated.

Qualifiers:
J - Result is estimated
U - Result is undetected

Total VOCs in lb/hr calculated based on 400 scfm.

Table 2.4
Summary of Catalytical Oxidizer Off Gas Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Services
Griffith, Indiana

		Sampled 6/05/2003								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	mg	0.97		1.4		ND	U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	0.87		2.3		4.2		NC	NC	NC
Butylbenzylphthalate	mg	6.0		1.5		ND	U	100.00%	100.00%	100.00%
Chrysene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	ND	U	NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
di-n-Butylphthalate	mg	0.62		ND	U	0.47		NC	NC	NC
Di-n-Octylphthalate	mg	0.88		ND	U	ND	U	NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC

Table 2.4
Summary of Catalytical Oxidizer Off Gas Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Services
Griffith, Indiana

		Sampled 6/05/2003								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
Hexachlorobutadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	mg	ND	U	ND	U	ND	U	NC	NC	NC
Naphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Nitrobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Total	mg	**9.3**		**5.2**		**4.7**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - milligram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect
Destruction efficiency is not calculated where influent and/or effluent concentrations are estimated or where the effluent concentration exceeds either influent concentration.

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 4/10/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	92,000		120,000		NA		NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1-Dichloroethane	ppbv	17,000		22,000		NA		NC	NC	NC
1,1-Dichloroethene	ppbv	7,200		7,900		NA		NC	NC	NC
1,2-Dichloroethane	ppbv	2,800		3,300		NA		NC	NC	NC
1,2-Dichloropropane	ppbv	1,200	J/J	ND	U	NA		NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	67,000		87,000		NA		NC	NC	NC
2-Hexanone	ppbv	ND	U	1,200	J/J	NA		NC	NC	NC
4-Methyl-2-pentanone	ppbv	20,000		26,000		NA		NC	NC	NC
Acetone	ppbv	70,000		90,000		NA		NC	NC	NC
Benzene	ppbv	110,000		140,000		NA		NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Disulfide	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroform	ppbv	5,800		7,400		NA		NC	NC	NC
Chloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	46,000		59,000		NA		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Ethyl Benzene	ppbv	32,000		42,000		NA		NC	NC	NC
m,p-Xylene	ppbv	140,000		180,000		NA		NC	NC	NC
Methylene Chloride	ppbv	150,000		200,000		NA		NC	NC	NC
o-Xylene	ppbv	41,000		53,000		NA		NC	NC	NC
Styrene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Tetrachloroethene	ppbv	55,000		70,000		NA		NC	NC	NC
Toluene	ppbv	400,000		510,000		NA		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	NA		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Trichloroethene	ppbv	68,000		85,000		NA		NC	NC	NC
Vinyl Chloride	ppbv	1,500		2,000		NA		NC	NC	NC
Total	**ppbv**	**1,326,500**		**1,705,800**		**NA**		**NC**	**NC**	**NC**
Total	**lb/hr**	**20.75**		**26.66**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 969 scfm (4/17/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/01/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	*Units*	*Influent IN1*		*Influent IN2*		*Effluent EFF1*		*Low*	*High*	*Average*
Method TO-14										
1,1,1-Trichloroethane	ppbv	120,000		120,000		NA		NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1-Dichloroethane	ppbv	14,000		15,000		NA		NC	NC	NC
1,1-Dichloroethene	ppbv	10,000		10,000		NA		NC	NC	NC
1,2-Dichloroethane	ppbv	3,000		2,900		NA		NC	NC	NC
1,2-Dichloropropane	ppbv	1,200	J	1,200	J	NA		NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	65,000		68,000		NA		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	NA		NC	NC	NC
4-Methyl-2-pentanone	ppbv	22,000		23,000		NA		NC	NC	NC
Acetone	ppbv	60,000		62,000		NA		NC	NC	NC
Benzene	ppbv	110,000		110,000		NA		NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Disulfide	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroform	ppbv	6,600		6,800		NA		NC	NC	NC
Chloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	53,000		54,000		NA		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Ethyl Benzene	ppbv	51,000		52,000		NA		NC	NC	NC
m,p-Xylene	ppbv	260,000		270,000		NA		NC	NC	NC
Methylene Chloride	ppbv	120,000		120,000		NA		NC	NC	NC
o-Xylene	ppbv	82,000		83,000		NA		NC	NC	NC
Styrene	ppbv	4,200		ND	U	NA		NC	NC	NC
Tetrachloroethene	ppbv	84,000		85,000		NA		NC	NC	NC
Toluene	ppbv	510,000		510,000		NA		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	NA		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Trichloroethene	ppbv	81,000		80,000		NA		NC	NC	NC
Vinyl Chloride	ppbv	930	U	ND	U	NA		NC	NC	NC
Total	**ppbv**	**1,657,930**		**1,672,900**		**NA**		**NC**	**NC**	**NC**
Total	**lb/hr**	**26.34**		**26.57**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 954 scfm (5/1/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/8/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	*Units*	*Influent IN1*		*Influent IN2*		*Effluent EF1*		*Low*	*High*	*Average*
Method TO-14										
1,1,1-Trichloroethane	ppbv	150,000		160,000		890		99.41%	99.44%	99.43%
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	18,000		19,000		120		99.33%	99.37%	99.35%
1,1-Dichloroethene	ppbv	3,000		3,400		250		91.67%	92.65%	92.16%
1,2-Dichloroethane	ppbv	3,800		3,400		29		99.15%	99.24%	99.19%
1,2-Dichloropropane	ppbv	1,300	J	1,500	J	10	J	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	75,000		86,000		480		99.36%	99.44%	99.40%
2-Hexanone	ppbv	ND	U	ND	U	7	J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	23,000		25,000		98		99.57%	99.61%	99.59%
Acetone	ppbv	99,000		110,000		840		99.15%	99.24%	99.19%
Benzene	ppbv	110,000		120,000		1,100		99.00%	99.08%	99.04%
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	6,400	J	2,200	J	8	J	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chlorobenzene	ppbv	1,300	J	ND	U	7	J	NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chloroform	ppbv	7,700		8,400		60		99.22%	99.29%	99.25%
Chloromethane	ppbv	ND	U	ND	U	52		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	54,000		63,000		400		99.26%	99.37%	99.31%
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	50,000		55,000		280		99.44%	99.49%	99.47%
m,p-Xylene	ppbv	230,000		270,000		1,300		99.43%	99.52%	99.48%
Methylene Chloride	ppbv	120,000		130,000		930		99.23%	99.28%	99.25%
o-Xylene	ppbv	70,000		80,000		390		99.44%	99.51%	99.48%
Styrene	ppbv	ND	U	ND	U	70		NC	NC	NC
Tetrachloroethene	ppbv	89,000		100,000		840		99.06%	99.16%	99.11%
Toluene	ppbv	520,000		580,000		3,500		99.33%	99.40%	99.36%
trans-1,2-Dichloroethene	ppbv	590	J	ND	U	53	J	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	82,000		86,000		700		99.15%	99.19%	99.17%
Vinyl Chloride	ppbv	800	J	630	J	46		NC	NC	NC
Total	**ppbv**	**1,714,890**		**1,903,530**		**12,460**		**99.27%**	**99.35%**	**99.31%**
Total	**lb/hr**	**26.59**		**29.50**		**0.19**		**99.29%**	**99.36%**	**99.32%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 938 scfm (5/9/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/15/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	140,000		140,000		NA		NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1-Dichloroethane	ppbv	17,000		17,000		NA		NC	NC	NC
1,1-Dichloroethene	ppbv	3,900		4,100		NA		NC	NC	NC
1,2-Dichloroethane	ppbv	4,500		3,600		NA		NC	NC	NC
1,2-Dichloropropane	ppbv	1,500	J	1,400	J	NA		NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	82,000		77,000		NA		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	NA		NC	NC	NC
4-Methyl-2-pentanone	ppbv	28,000		27,000		NA		NC	NC	NC
Acetone	ppbv	92,000		86,000		NA		NC	NC	NC
Benzene	ppbv	110,000		98,000		NA		NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Disulfide	ppbv	3,800	J	1,700	J	NA		NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroform	ppbv	7,100		6,500		NA		NC	NC	NC
Chloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	54,000		53,000		NA		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Ethyl Benzene	ppbv	58,000		57,000		NA		NC	NC	NC
m,p-Xylene	ppbv	240,000		230,000		NA		NC	NC	NC
Methylene Chloride	ppbv	110,000		110,000		NA		NC	NC	NC
o-Xylene	ppbv	69,000		68,000		NA		NC	NC	NC
Styrene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Tetrachloroethene	ppbv	93,000		88,000		NA		NC	NC	NC
Toluene	ppbv	650,000		600,000		NA		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	NA		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Trichloroethene	ppbv	87,000		78,000		NA		NC	NC	NC
Vinyl Chloride	ppbv	ND	U	ND	U	NA		NC	NC	NC
Total	**ppbv**	**1,850,800**		**1,746,300**		**NA**		**NC**	**NC**	**NC**
Total	**lb/hr**	**28.86**		**27.29**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 945 scfm (5/15/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/27/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	110,000		110,000		NA		NC	NC	NC
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,1-Dichloroethane	ppbv	13,000		14,000		NA		NC	NC	NC
1,1-Dichloroethene	ppbv	9,300		10,000		NA		NC	NC	NC
1,2-Dichloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
1,2-Dichloropropane	ppbv	ND	U	ND	U	NA		NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	68,000		67,000		NA		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	NA		NC	NC	NC
4-Methyl-2-pentanone	ppbv	26,000		26,000		NA		NC	NC	NC
Acetone	ppbv	73,000		73,000		NA		NC	NC	NC
Benzene	ppbv	91,000		91,000		NA		NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	NA		NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Disulfide	ppbv	ND	U	ND	U	NA		NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Chloroform	ppbv	5,700		5,300		NA		NC	NC	NC
Chloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	48,000		49,000		NA		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	NA		NC	NC	NC
Ethyl Benzene	ppbv	62,000		62,000		NA		NC	NC	NC
m,p-Xylene	ppbv	280,000		280,000		NA		NC	NC	NC
Methylene Chloride	ppbv	84,000		84,000		NA		NC	NC	NC
o-Xylene	ppbv	90,000		87,000		NA		NC	NC	NC
Styrene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Tetrachloroethene	ppbv	93,000		94,000		NA		NC	NC	NC
Toluene	ppbv	530,000		520,000		NA		NC	NC	NC
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U	NA		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	NA		NC	NC	NC
Trichloroethene	ppbv	72,000		71,000		NA		NC	NC	NC
Vinyl Chloride	ppbv	960	J	1,000	J	NA		NC	NC	NC
Total	**ppbv**	**1,655,960**		**1,644,300**		**NA**		**NC**	**NC**	**NC**
Total	**lb/hr**	**27.33**		**27.16**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 969 scfm (average flow for 5/15/03 and 6/10/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 6/13/2003 from Therm Ox 2								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EFF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	52,000		16		12		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	6,700		2.1		1.5		NC	NC	NC
1,1-Dichloroethene	ppbv	7,100		2.2		4		NC	NC	NC
1,2-Dichloroethane	ppbv	1,700		1.1	J	0.46	J	NC	NC	NC
1,2-Dichloropropane	ppbv	800	J	ND	U	ND	U	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	37,000		33		13		NC	NC	NC
2-Hexanone	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	16,000		12		3.4		NC	NC	NC
Acetone	ppbv	37,000		28		59		NC	NC	NC
Benzene	ppbv	53,000		26		15		NC	NC	NC
Bromodichloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromoform	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Bromomethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Disulfide	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	0.42	J	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	3,100		1.3	J	1.4		NC	NC	NC
Chloromethane	ppbv	ND	U	ND	U	1		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	29,000		15		12		NC	NC	NC
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Dibromochloromethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Ethyl Benzene	ppbv	42,000		60		10		NC	NC	NC
m,p-Xylene	ppbv	190,000		300		47		NC	NC	NC
Methylene Chloride	ppbv	43,000		20		13		NC	NC	NC
o-Xylene	ppbv	57,000		99		14		NC	NC	NC
Styrene	ppbv	ND	U	ND	U	2.6		NC	NC	NC
Tetrachloroethene	ppbv	61,000		58		21		NC	NC	NC
Toluene	ppbv	330,000		280		78		NC	NC	NC
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	38,000		24		10		NC	NC	NC
Vinyl Chloride	ppbv	ND	U	ND	U	0.53	J	NC	NC	NC
Total	**ppbv**	**1,004,400**		**978**		**319**		**NC**	**NC**	**NC**
Total	**lb/hr**	**17.09**		**0.02**		**0.01**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiencies were not calculated for the 6/13/2003 sample due to the large discrepancy between the influent samples.
Total VOCs in lb/hr calculated based on 1016 scfm (6/13/03).

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results for VOCs (Method TO-14) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 6/26/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low	High	Average
Method TO-14										
1,1,1-Trichloroethane	ppbv	65,000		76,000		250		99.62%	99.67%	99.64%
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND	U	ND	U	1.6	J	NC	NC	NC
1,1-Dichloroethane	ppbv	8,800		10,000		33		99.63%	99.67%	99.65%
1,1-Dichloroethene	ppbv	860	J	970	J	49		NC	NC	NC
1,2-Dichloroethane	ppbv	2,000		2,100		7.7		99.62%	99.63%	99.62%
1,2-Dichloropropane	ppbv	1,000	J	920	J	ND	U	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	55,000		65,000		170		99.69%	99.74%	99.71%
2-Hexanone	ppbv	2,100	J	1,900	J	2.9	J	NC	NC	NC
4-Methyl-2-pentanone	ppbv	22,000		25,000		37		99.83%	99.85%	99.84%
Acetone	ppbv	63,000		72,000		300		99.52%	99.58%	99.55%
Benzene	ppbv	45,000		51,000		290		99.36%	99.43%	99.39%
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	1.1	J	NC	NC	NC
Carbon Disulfide	ppbv	3,800	J	5,600	J	0.75	J	NC	NC	NC
Carbon Tetrachloride	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Chlorobenzene	ppbv	ND	U	ND	U	2.8		NC	NC	NC
Chloroethane	ppbv	ND	U	ND	U	2.7	J	NC	NC	NC
Chloroform	ppbv	3,300		3,900		14		99.58%	99.64%	99.61%
Chloromethane	ppbv	ND	U	ND	U	15		NC	NC	NC
cis-1,2-Dichloroethene	ppbv	24,000		27,000		91		99.62%	99.66%	99.64%
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	45,000		42,000		80		99.81%	99.82%	99.82%
m,p-Xylene	ppbv	200,000		170,000		300		99.82%	99.85%	99.84%
Methylene Chloride	ppbv	59,000		69,000		250		99.58%	99.64%	99.61%
o-Xylene	ppbv	57,000		50,000		86		99.83%	99.85%	99.84%
Styrene	ppbv	ND	U	ND	U	34		NC	NC	NC
Tetrachloroethene	ppbv	45,000		45,000		220		99.51%	99.51%	99.51%
Toluene	ppbv	340,000		380,000		920		99.73%	99.76%	99.74%
trans-1,2-Dichloroethene	ppbv	ND	U	480	J	21		NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U	ND	U	NC	NC	NC
Trichloroethene	ppbv	41,000		46,000		180		99.56%	99.61%	99.58%
Vinyl Chloride	ppbv	510	J	720	J	20		NC	NC	NC
Total	***ppbv***	**1,083,370**		**1,144,590**		**3,380**		**99.69%**	**99.70%**	**99.70%**
Total	**lb/hr**	**15.60**		**16.34**		**0.05**		**99.69%**	**99.71%**	**99.70%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
NA - Not analyzed
NC - Not calculated
ND - Non-detect
ppbv - parts per billion volume
lb/hr - pounds per hour
Destruction efficiency is not calculated where influent and/or effluent values are estimated or where the effluent concentration exceed either influent concentration
Total VOCs in lb/hr calculated based on 897 scfm (average flow for 6/25/03 and 6/26/03)

Qualifiers:
J - Result is estimated
U - Result is undetected

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 4/10/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	0.86	J/J	0.70	J/J	NA		NC	NC	NC
1,2-Dichlorobenzene	mg	110		88		NA		NC	NC	NC
1,3-Dichlorobenzene	mg	5.6		4.2		NA		NC	NC	NC
1,4-Dichlorobenzene	mg	16		12		NA		NC	NC	NC
2,4,5-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2-Methylnaphthalene	mg	6.9		6.0		NA		NC	NC	NC
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	NA		NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	NA		NC	NC	NC
Anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Butylbenzylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Chrysene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	NA		NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
di-n-Butylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Fluorene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobutadiene	mg	2.0		ND	U	NA		NC	NC	NC
Hexachlorocyclopentadiene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	NA		NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Isophorone	mg	18		14		NA		NC	NC	NC
Naphthalene	mg	57		48		NA		NC	NC	NC
Nitrobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	NA		NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	NA		NC	NC	NC
Phenol	mg	ND	U	ND	U	NA		NC	NC	NC
Pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Total	**mg**	**216.4**		**172.9**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/1/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	1.6		1.6		NA		NC	NC	NC
1,2-Dichlorobenzene	mg	120		130		NA		NC	NC	NC
1,3-Dichlorobenzene	mg	6.1		6.3		NA		NC	NC	NC
1,4-Dichlorobenzene	mg	18		19		NA		NC	NC	NC
2,4,5-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2-Methylnaphthalene	mg	6.0		6.1		NA		NC	NC	NC
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	NA		NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Methylphenol	mg	3.7	J/J	3.8	J/J	NA		NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	NA		NC	NC	NC
Anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Butylbenzylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Chrysene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	NA		NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
di-n-Butylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Fluorene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobutadiene	mg	1.9		1.9		NA		NC	NC	NC
Hexachlorocyclopentadiene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	NA		NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Isophorone	mg	22		24		NA		NC	NC	NC
Naphthalene	mg	42		45		NA		NC	NC	NC
Nitrobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	NA		NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	NA		NC	NC	NC
Phenol	mg	7.0		7.6		NA		NC	NC	NC
Pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Total	**mg**	**228.3**		**245.3**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/8/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	2.0		1.4		ND	U	100.00%	100.00%	100.00%
1,2-Dichlorobenzene	mg	140		95		0.69	J/J	NC	NC	NC
1,3-Dichlorobenzene	mg	6.6		4.6		ND	U	100.00%	100.00%	100.00%
1,4-Dichlorobenzene	mg	20		14		ND	U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	mg	7.5		4.9		ND	U	100.00%	100.00%	100.00%
2-Methylphenol (o-Cresol)	mg	3.0	J/J	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Methylphenol	mg	5.3		3.7	J/J	ND	U	NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND	U	ND	U	9.6		NC	NC	NC
Butylbenzylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	ND	U	NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
di-n-Butylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	mg	2.5		1.6		ND	U	100.00%	100.00%	100.00%
Hexachlorocyclopentadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	mg	29		20		ND	U	100.00%	100.00%	100.00%
Naphthalene	mg	54		37		ND	U	100.00%	100.00%	100.00%
Nitrobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	mg	8.8		6.0		ND	U	100.00%	100.00%	100.00%
Pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Total	**mg**	**278.7**		**188.2**		**10.3**		**94.53%**	**96.31%**	**95.42%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/15/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	ND		0.86	J/J	NA		NC	NC	NC
1,2-Dichlorobenzene	mg	23		56		NA		NC	NC	NC
1,3-Dichlorobenzene	mg	0.98	J/J	2.0		NA		NC	NC	NC
1,4-Dichlorobenzene	mg	2.7		6.4		NA		NC	NC	NC
2,4,5-Trichlorophenol	mg	ND		ND		NA		NC	NC	NC
2,4,6-Trichlorophenol	mg	ND		ND		NA		NC	NC	NC
2,4-Dichlorophenol	mg	ND		ND		NA		NC	NC	NC
2,4-Dimethylphenol	mg	ND		ND		NA		NC	NC	NC
2,4-Dinitrophenol	mg	ND		ND		NA		NC	NC	NC
2,4-Dinitrotoluene	mg	ND		ND		NA		NC	NC	NC
2,6-Dinitrotoluene	mg	ND		ND		NA		NC	NC	NC
2-Chloronaphthalene	mg	ND		ND		NA		NC	NC	NC
2-Chlorophenol	mg	ND		ND		NA		NC	NC	NC
2-Methylnaphthalene	mg	2.4		6.9		NA		NC	NC	NC
2-Methylphenol (o-Cresol)	mg	ND		ND		NA		NC	NC	NC
2-Nitroaniline	mg	ND		ND		NA		NC	NC	NC
2-Nitrophenol	mg	ND		ND		NA		NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND		ND		NA		NC	NC	NC
3-Nitroaniline	mg	ND		ND		NA		NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND		ND		NA		NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND		ND		NA		NC	NC	NC
4-Chloro-3-methylphenol	mg	ND		ND		NA		NC	NC	NC
4-Chloroaniline	mg	ND		ND		NA		NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND		ND		NA		NC	NC	NC
4-Methylphenol	mg	ND		3.1	J/J	NA		NC	NC	NC
4-Nitroaniline	mg	ND		ND		NA		NC	NC	NC
4-Nitrophenol	mg	ND		ND		NA		NC	NC	NC
Acenaphthene	mg	ND		ND		NA		NC	NC	NC
Acenaphthylene	mg	ND		ND		NA		NC	NC	NC
Anthracene	mg	ND		ND		NA		NC	NC	NC
Benzo(a)anthracene	mg	ND		ND		NA		NC	NC	NC
Benzo(a)pyrene	mg	ND		ND		NA		NC	NC	NC
Benzo(b)fluoranthene	mg	ND		ND		NA		NC	NC	NC
Benzo(g,h,i)perylene	mg	ND		ND		NA		NC	NC	NC
Benzo(k)fluoranthene	mg	ND		ND		NA		NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND		ND		NA		NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND		ND		NA		NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND		ND		NA		NC	NC	NC
Butylbenzylphthalate	mg	ND		ND		NA		NC	NC	NC
Chrysene	mg	ND		ND		NA		NC	NC	NC
Dibenz(a,h)anthracene	mg	ND		ND		NA		NC	NC	NC
Dibenzofuran	mg	ND		ND		NA		NC	NC	NC
Diethylphthalate	mg	ND		ND		NA		NC	NC	NC
Dimethylphthalate	mg	ND		ND		NA		NC	NC	NC
di-n-Butylphthalate	mg	ND		ND		NA		NC	NC	NC
Di-n-Octylphthalate	mg	ND		ND		NA		NC	NC	NC
Fluoranthene	mg	ND		ND		NA		NC	NC	NC
Fluorene	mg	ND		ND		NA		NC	NC	NC
Hexachlorobenzene	mg	ND		ND		NA		NC	NC	NC
Hexachlorobutadiene	mg	0.60	J/J	1.3		NA		NC	NC	NC
Hexachlorocyclopentadiene	mg	ND		ND		NA		NC	NC	NC
Hexachloroethane	mg	ND		ND		NA		NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND		ND		NA		NC	NC	NC
Isophorone	mg	8.4		21		NA		NC	NC	NC
Naphthalene	mg	21		55		NA		NC	NC	NC
Nitrobenzene	mg	ND		ND		NA		NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND		ND		NA		NC	NC	NC
N-Nitrosodiphenylamine	mg	ND		ND		NA		NC	NC	NC
Pentachlorophenol	mg	ND		ND		NA		NC	NC	NC
Phenanthrene	mg	ND		ND		NA		NC	NC	NC
Phenol	mg	ND		5.2		NA		NC	NC	NC
Pyrene	mg	ND		ND		NA		NC	NC	NC
Total	**mg**	**59.1**		**157.8**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 5/27/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	0.79	J/J	0.86	J/J	NA		NC	NC	NC
1,2-Dichlorobenzene	mg	56		73		NA		NC	NC	NC
1,3-Dichlorobenzene	mg	2.2		3.2		NA		NC	NC	NC
1,4-Dichlorobenzene	mg	7.2		9.6		NA		NC	NC	NC
2,4,5-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	NA		NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
2-Methylnaphthalene	mg	6.4		7.2		NA		NC	NC	NC
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	NA		NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	NA		NC	NC	NC
4-Methylphenol	mg	2.8	J/J	2.9	J/J	NA		NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	NA		NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	NA		NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	NA		NC	NC	NC
Anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	NA		NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	NA		NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Butylbenzylphthalate	mg	1.5	J/J	ND	U	NA		NC	NC	NC
Chrysene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	NA		NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	NA		NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
di-n-Butylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	NA		NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	NA		NC	NC	NC
Fluorene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachlorobutadiene	mg	1.4		1.5		NA		NC	NC	NC
Hexachlorocyclopentadiene	mg	ND	U	ND	U	NA		NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	NA		NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Isophorone	mg	19		23		NA		NC	NC	NC
Naphthalene	mg	51		59		NA		NC	NC	NC
Nitrobenzene	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	NA		NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	NA		NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	NA		NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	NA		NC	NC	NC
Phenol	mg	4.3	J/J	5.2		NA		NC	NC	NC
Pyrene	mg	ND	U	ND	U	NA		NC	NC	NC
Total	**mg**	**152.6**		**185.5**		**NA**		**NC**	**NC**	**NC**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 6/13/2003 from Therm Ox 2								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
1,2-Dichlorobenzene	mg	19		3.2		ND	U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	mg	1.0		ND	U	ND	U	NC	NC	NC
1,4-Dichlorobenzene	mg	2.2		ND	U	ND	U	NC	NC	NC
2,4,5-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	mg	1.2		1.7		ND	U	100.00%	100.00%	100.00%
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	0.91	J	0.70	J	ND	U	NC	NC	NC
Butylbenzylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	ND	U	NC	NC	NC
Diethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
di-n-Butylphthalate	mg	0.56	J	ND	U	0.56	J	NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorocyclopentadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	mg	5.3		2.6		ND	U	100.00%	100.00%	100.00%
Naphthalene	mg	11		8.5		ND	U	100.00%	100.00%	100.00%
Nitrobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Total	**mg**	**41.2**		**16.7**		**0.56**		**96.65%**	**98.64%**	**97.64%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high. Reported concentration is estimated.
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated

Table 3.2
Summary of Thermal Oxidizer Analytical Results for SVOCs (Method TO-13) - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

		Sampled 6/26/2003 from Therm Ox 1								
		Analytical Data						Destruction Efficiency		
Compounds	Units	Influent IN1		Influent IN2		Effluent EF1		Low (%)	High (%)	Average (%)
Method TO-13										
1,2,4-Trichlorobenzene	mg	0.78	J	0.85	J	ND	U	NC	NC	NC
1,2-Dichlorobenzene	mg	40		41		ND	U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	mg	1.0		1.2		ND	U	100.00%	100.00%	100.00%
1,4-Dichlorobenzene	mg	4.2		4.6		ND	U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4,6-Trichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dichlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dimethylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,4-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2,6-Dinitrotoluene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chloronaphthalene	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Chlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Methylnaphthalene	mg	5.8		6.8		ND	U	100.00%	100.00%	100.00%
2-Methylphenol (o-Cresol)	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
2-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
3,3'-Dichlorobenzidine	mg	ND	U	ND	U	ND	U	NC	NC	NC
3-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4,6-Dinitro-2-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Bromophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloro-3-methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chloroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Methylphenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitroaniline	mg	ND	U	ND	U	ND	U	NC	NC	NC
4-Nitrophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Acenaphthylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(a)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(b)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(g,h,i)perylene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Benzo(k)fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethoxy) Methane	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Chloroethyl) Ether	mg	ND	U	ND	U	ND	U	NC	NC	NC
bis(2-Ethylhexyl)phthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Butylbenzylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Chrysene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz(a,h)anthracene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	mg	ND	U	ND	U	ND	U	NC	NC	NC
Diethylphthalate	mg	0.48	J	0.41	J	0.58	J	NC	NC	NC
Dimethylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
di-n-Butylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Di-n-Octylphthalate	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	mg	1.2		1.1		ND	U	100.00%	100.00%	100.00%
Hexachlorocyclopentadiene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	mg	ND	U	ND	U	ND	U	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	mg	20		21		ND	U	100.00%	100.00%	100.00%
Naphthalene	mg	51		57		ND	U	100.00%	100.00%	100.00%
Nitrobenzene	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitroso-di-n-propylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	mg	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	mg	4.4	J	5.4		ND	U	NC	NC	NC
Pyrene	mg	ND	U	ND	U	ND	U	NC	NC	NC
Total	**mg**	**128.9**		**139.4**		**0.58**		**99.55%**	**99.58%**	**99.57%**

Notes:
_/ - Laboratory data qualifier
/_ - Data validation qualifier
mg - Microgram
NA - Not Analyzed
NC - Not calculated
ND - Non-detect

Qualifiers:
J - Result is estimated
JB - Analyte is detected in the method blank resulting in potential bias high Reported concentration is estimated
U - Result is undetected

Destruction efficiency is not calculated where influent and/or effluent values are estimated.

Table 3.3
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data - Second Quarter 2003
American Chemical Services NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-01	5/9/2003	60	60	78	Test D Start
	5/12/2003	38	54	434	
	5/15/2003	51	50	365	
	6/10/2003	39	38	188	
	6/11/2003	39	40	159	
	6/13/2003	28	30	123	
	6/23/2003	26	78	--	
	6/25/2003	59	74	114	
	6/27/2003	59	71	--	
SVE-04	5/9/2003	80	45	101	Test D Start
	5/12/2003	70	46	122	
	5/15/2003	75	45	145	
	6/23/2003	54	32	59	
	6/25/2003	60	40	64	
	6/27/2003	60	36	--	
SVE-07	6/10/2003	NC	30	193	
	6/11/2003	NC	16	--	
	6/13/2003	87	24	107	
SVE-08	5/9/2003	92	46	36	Test D Start
	5/12/2003	105	45	28	
	5/15/2003	89	42	43	
	6/23/2003	0	80	62	
	6/25/2003	0	78	144	
	6/27/2003	0	72	--	
SVE-09	6/10/2003	39	10	21.73	
	6/11/2003	20	10	14	
	6/13/2003	28	4	12	
SVE-10	6/10/2003	41	15	41.42	
	6/11/2003	41	15	56	
	6/13/2003	29	12	50	
SVE-12	6/10/2003	0	32	61.57	
	6/11/2003	0	34	28	
	6/13/2003	0	28	33	
SVE-15	4/17/2003	125	22	501	
	4/25/2003	101	30	335	
	4/28/2003	98	32	297	
	4/29/2003	105	32	217	
	4/30/2003	94	32	241	
	5/1/2003	100	37	290	
	5/9/2003	100	38	301	
	6/10/2003	39	14	204	
	6/11/2003	39	14	206	
	6/13/2003	38	8	244	
SVE-16	4/25/2003	79	40	556	
	4/28/2003	79	41	568	
	4/29/2003	79	40	448	
	4/30/2003	79	40	397	
	5/1/2003	77	43	485	
	5/9/2003	79	47	542	
SVE-17	6/10/2003	0	34	50.84	
	6/11/2003	39	25	14	
	6/13/2003	0	30	217	

Table 3.3
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data - Second Quarter 2003
American Chemical Services NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-19	4/17/2003	112	43	35	
	4/25/2003	74	58	101	
	4/28/2003	89	58	103	
	4/29/2003	88	60	29	
	4/30/2003	88	60	32	
	5/1/2003	91	62	52	
	5/9/2003	81	64	34	
SVE-20	6/10/2003	40	32	23.76	
	6/11/2003	40	38	17	
	6/13/2003	--	30	--	
SVE-21	4/17/2003	100	40	11	
SVE-22	4/17/2003	69	40	730	
	5/9/2003	77	62	465	Test D Start
	5/12/2003	97	60	855	
	5/15/2003	100	56	658	
	6/10/2003	38	18	444	
	6/11/2003	38	19	--	
	6/13/2003	38	10	45	
	6/23/2003	61	32	546	
	6/25/2003	68	30	725	
	6/27/2003	68	31	777	
SVE-23	5/9/2003	72	32	315	Test D Start
	5/12/2003	78	30	910	
	5/15/2003	73	28	675	
	6/23/2003	55	20	485	
	6/25/2003	58	18	693	
	6/27/2003	65	18	768	
SVE-24	4/17/2003	120	38	902	
	4/25/2003	109	48	633	
	4/28/2003	109	48	549	
	4/29/2003	99	50	422	
	4/30/2003	103	50	387	
	5/1/2003	100	52	520	
	5/9/2003	102	56	550	
SVE-25	5/9/2003	62	46	362	Test D Start
	5/12/2003	117	42	720	
	5/15/2003	110	38	571	
	6/10/2003	38	22	370	
	6/11/2003	27	22	451	
	6/13/2003	39	12	27	
	6/23/2003	55	24	425	
	6/25/2003	55	20	590	
	6/27/2003	66	22	743	
SVE-28	6/10/2003	28	34	68.98	
	6/11/2003	20	34	64	
	6/13/2003	29	28	84	
SVE-32	5/9/2003	65	32	132	Test D Start
	5/12/2003	64	32	360	
	5/15/2003	64	32	275	
	6/10/2003	40	26	--	
	6/11/2003	49	26	245	
	6/13/2003	49	22	3.5	
	6/23/2003	69	35	207	
	6/25/2003	69	34	279	
	6/27//2003	64	34	321	

Table 3.3
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data - Second Quarter 2003
American Chemical Services NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac (" H_2O)	VOCs (ppm)	Comments
SVE-33	4/25/2003	0	58	151	
	4/28/2003	0	58	140	
	4/29/2003	0	56	106	
	4/30/2003	0	58	103	
	5/1/2003	0	60	170	
	5/9/2003	0	62	231	
SVE-34	6/10/2003	38	28	374	
	6/11/2003	38	30	512	
	6/13/2003	39	24	56	
SVE-35	4/25/2003	130	45	242	
	4/28/2003	135	44	209	
	4/29/2003	136	44	153	
	4/30/2003	133	45	175	
	5/1/2003	126	48	252	
	5/9/2003	131	50	282	
SVE-37	6/10/2003	NC	48	--	
	6/11/2003	NC	50	--	
	6/13/2003	49	44	56	
SVE-38	4/17/2003	80	43	760	
	4/25/2003	74	58	547	
	4/28/2003	74	56	391	
	4/29/2003	74	56	354	
	4/30/2003	73	56	326	
	5/1/2003	74	60	470	
	5/9/2003	74	62	524	
	5/12/2003	97	62	762	
	5/15/2003	88	58	632	
	6/10/2003	39	28	460	
	6/11/2003	48	30	625	
	6/13/2003	51	24	22	
SVE-39	4/17/2003	131	33	643	
	4/25/2003	98	42	379	
	4/28/2003	110	43	322	
	4/29/2003	99	42	212	
	4/30/2003	97	44	225	
	5/1/2003	97	46	315	
	5/9/2003	101	50	406	
SVE-40	6/10/2003	38	18	492	
	6/11/2003	51	20	646	
	6/13/2003	50	12	52	
SVE-41	6/10/2003	0	36	424	
	6/11/2003	0	36	599	
	6/13/2003	0	32	70	

Notes:
"-" = data not collected
"NC" = parameter was not calculated
VOC = volatile organic compound
ppm = parts per million
"H_20 = inches of water
cfm = cubic feet per minute

Table 3.4
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Header
Monitoring Data - Second Quarter 2003
American Chemical Services 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)	Blower Inf Vac (" H2O)	Blower Inf VOC (ppm)	Blower Inf Temp. (°F)	Blower Eff Line Press (psia)	Blower Eff Flow (scfm)	Blower Eff Press (" H_2O)	Blower Eff VOC (ppm)	Blower Eff Temp. (°F)
3/6/2003	12.6	0	60	12.7	0	58	58	50	58	0	12.5	870	63	-	42	15.5	940	21.0	760	112
3/13/2003	12.5	-	67	12.6	-	64	64	55	64	0	-	-	-	-	-	-	-	-	-	-
3/20/2003	13.0	527	45	13.1	0	43	42	34	40	0	12.9	906	50	-	50	15.5	1001	22.0	902	109
4/17/2003	13.3	168	41	13.3	0	40	43	34	40	0	12.9	967	50	-	50	15.4	969	19.0	330	110
4/25/2003	12.7	0	54	12.8	0	50	50	42	50	0	12.5	864	58	-	50	15.4	964	21.0	548	114
4/28/2003	12.5	0	60	12.7	0	56	56	48	55	0	12.4	791	64	-	54	15.4	957	19.0	716	122
4/29/2003	12.5	0	58	12.7	0	54	54	46	54	0	12.3	823	64	-	53	15.3	956	18.5	402	121
4/30/2003	12.5	0	60	12.6	0	56	56	48	55	0	12.4	758	64	-	53	15.3	955	18.0	432	122
5/1/2003	12.5	0	60	12.5	0	59	60	50	59	-	12.3	909	66	-	55	15.3	954	17.5	557	122
5/9/2003	12.4	0	62	12.4	0	60	60	50	60	0	12.2	907	67	-	54	15.3	937	19.0	693	125
5/9/2003	12.4	161	62	12.5	362	58	60	50	60	0	12.1	889	68	-	56	15.3	938	19.0	542	124
5/12/2003	-2.2	-	60	-2.0	-	55	58	50	58	0	-2.4	-	66	-	56	0.7	201	19.5	750	125
5/15/2003	12.6	-	57	12.8	329	53	55	47	55	0	12.4	810	63	-	53	15.4	945	20.0	665	120
6/10/2003	13.2	-	38	13.4	234	34	32	24	34	0	13.0	693	44	-	68	15.4	989	21.0	314	118
6/11/2003	13.4	-	38	13.5	237	34	36	24	34	0	13.2	703	42	-	62	15.5	1028	22.0	376	114
6/13/2003	13.1	-	32	13.2	234	30	30	22	30	0	12.9	655	38	-	62	15.1	1016	23.0	351	111
6/23/2003	12.2	-	70	12.3	0	66	68	60	68	0	12.1	861	72	-	72	15.3	910	17.0	388	142
6/25/2003	12.4	-	64	12.5	503	62	66	56	64	0	12.2	738	70	-	74	15.3	879	17.0	350	142
6/27/2003	12.6	-	62	12.6	NC	62	62	54	61	0	12.3	674	68	-	70	15.4	914	17.0	513	140

Notes:
"-" = data not collected
psia - pounds per square inch, atmosphere
scfm - standard cubic feet per minute
"H_20 - inches of water
VOC - volatile organic compound
ppm - parts per million
KP1 & KP1 are headers in the KP Area
OFCA1, OFCA2, & OFCA3 are headers in the OFCA

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

Upper Aquifer Wells

Well Designation	Reference Points			6/18/2003		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOIC	level	Elevation		
MW11	6377	7329	640.47	7.23	633.24		n/a
MW13	5050	7814	634.08	4.00	630.08		n/a
MW37	5395	7976	636.78	5.72	631.06		n/a
MW46	4526	7424	633.32	2.83	630.49		n/a
MW48	5669	7814	636.36	5.25	631.11		n/a
MW49	5551	7650	637.00	4.83	632.17		n/a

Staff Gauges & Piezometers

Well Designation	Reference Points			6/18/2003		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOSG	level	Elevation		
P23	4689	7018	636.18	6.58	629.60		n/a
P25	5131	7510	635.01	5.60	629.41		n/a
P26	4764	7309	634.23	4.28	629.95		n/a
P27	4904	7020	639.70	9.56	630.14		n/a
P28	5883	7486	644.53	11.86	632.67		n/a
P32	5746	7026	642.32	12.32	630.00		n/a
P40	5931	7241	638.77	5.56	633.21		n/a
P41	5663	7377	637.23	4.50	632.73		n/a
P49	5145	6949	638.98	10.63	628.35		n/a
SG13	-	-	631.53	4.89	630.42	TOSG = 6.0' mark	n/a

PGCS Piezometer Sets

Well Designation	Reference Points			6/18/2003		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	level	Elevation		
P81	5577	7581	636.19	5.00	631.19		n/a
P82	5577	7572	635.77	4.80	630.97		n/a
P83	5577	7561.6	635.95	4.81	631.14		n/a
P84	5322	7603	634.35	4.52	629.83		n/a
P85	5326	7594	634.08	4.19	629.89		n/a
P86	5329	7585	634.41	4.45	629.96		n/a
P87	5121	7466	633.88	4.49	629.39		n/a
P88	5130	7460	633.90	4.36	629.54		n/a
P89	5137	7454	634.02	4.43	629.59		n/a
P90	4881	7152	634.45	4.90	629.55	Resurveyed	n/a
P91	4889	7145	634.59	5.05	629.54	Resurveyed	n/a
P92	4896	7138.1	633.87	4.30	629.57	Resurveyed	n/a

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

BWES Water Level and Piezometer Pairs

Well Designation	Reference Points			6/18/2003		Notes	Difference Across Barrier Wall (if applicable)[1]
	East	North	TOC	level	Elevation		
P93 - Outside BW	5136	7067	638.79	CNM	CNM	Does not exist - to be replaced	n/a
P94 - Inside BW	5146	7061	638.98	CNM	CNM	Does not exist - to be replaced	
P95 - Outside BW	5146	6532	638.58	6.80	631.78		> -8.34
P96 - Inside BW	5156	6537	641.26	Dry	Dry	TD=17.82 (Elevation <623.44)	
P105 - Outside BW	5885	6678	638.86	5.43	633.43		-4.48
P106 - Inside BW	5871	6685	638.10	9.15	628.95		
P107 - Outside BW	5766	7339	637.42	4.83	632.59		-2.19
P108 - Inside BW	5757	7324	638.13	7.73	630.40		
P109 - Outside BW	5740	6387	644.30	11.07	633.23		-6.68
P110 - Inside BW	5705	6382	647.68	21.13	626.55		
P111 - Outside BW	5551	5950	650.03	17.57	632.46		-6.70
P112 - Inside BW	5525	5960	653.36	27.60	625.76		
P113 - Inside BW	5309	5693	657.53	31.46	626.07		n/a (-5.81 between P113 and ORCPZ104)
ORCPZ102 - Outside BW	5331	5612	652.47	CNM	CNM	Landfill access gate closed; measured nearby ORCPZ104 instead	
ORCPZ104 - Outside BW	5417	5537	655.96	24.08	631.88	Historical elevations similar to ORCPZ102	
P114 - Inside BW	5035	5729	653.69	27.24	626.45		-5.47
P115 - Outside BW	4970	5708	652.50	20.58	631.92		
P116 - Inside BW	5031	6087	646.26	20.30	625.96		-6.20
P117 - Outside BW	5014	6087	643.93	11.77	632.16		
P118 - Inside BW	5402	6539	645.52	20.08	625.44		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
BW= barrier wall
CNM = could not measure (reason given under "Notes" column)
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 - Second Quarter 2003
American Chemical Service NPL Site
Griffith, Indiana

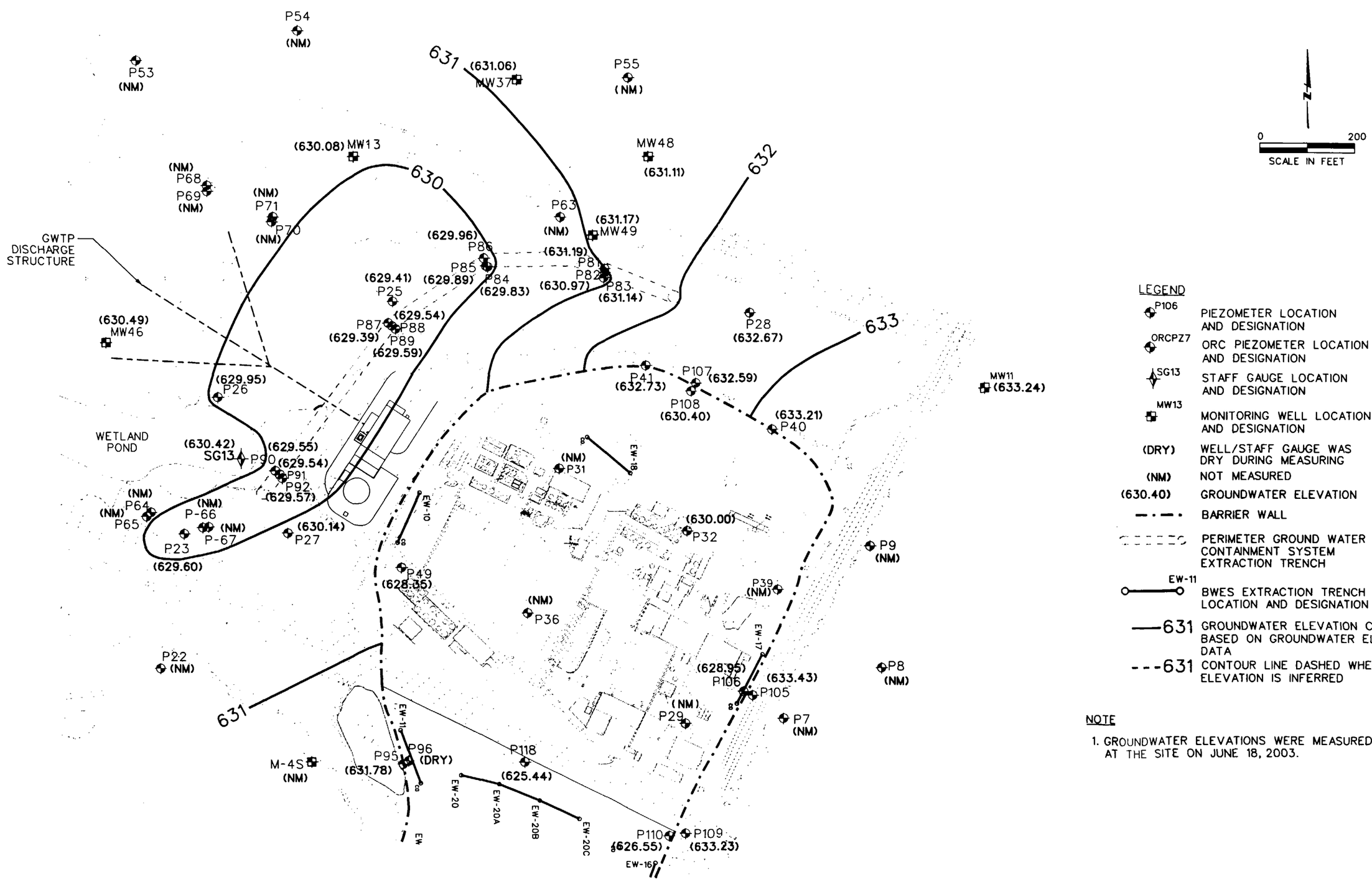
Date	On-Site Area							
	Target Level	P-29	P-31	P-32	P-36	P-49	P-106	P-108
4-Apr-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	629.5
11-Apr-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	629.8
18-Apr-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	629.8
25-Apr-03	629.0	630.4	630.9	629.8	628.2	627.9	627.6	629.8
2-May-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	630
9-May-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	630.2
16-May-03	629.0	630.4	630.9	629.8	628.2	627.9	627.7	630.4
22-May-03	629.0	630.4	630.9	629.8	628.2	627.9	627.8	630.5
29-May-03	629.0	630.4	630.9	629.8	628.2	627.9	628	630.5
5-Jun-03	629.0	630.4	630.9	629.8	628.2	627.9	628.2	630.5
13-Jun-03	629.0	630.4	630.9	629.8	628.2	627.9	628.4	630.4
20-Jun-03	629.0	630.4	630.9	629.8	628.2	628.5	629	630.4
27-Jun-03	629.0	630.4	630.9	629.8	628.2	628.1	629.7	629.4

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
4-Apr-03	626.0	621.1	626.0	625.7	626.2	626.7	626.2	625.2	626.2	626.1	626.0
11-Apr-03	626.0	621.6	626.2	625.9	626.4	626.9	626.7	625.4	--	--	--
18-Apr-03	626.0	621.8	626.1	625.7	626.2	626.7	626.1	625.4	--	--	--
25-Apr-03	626.0	621.9	626.0	625.5	625.9	626.4	625.4	625.4	626.3	626.2	626.0
2-May-03	626.0	621.3	625.9	625.2	626.0	626.4	625.1	625.3	--	--	--
9-May-03	626.0	620.6	625.8	625.0	626.1	626.4	624.9	625.2	626.6	626.5	626.0
16-May-03	626.0	620.6	626.1	625.5	626.2	626.6	624.8	625.4	--	--	--
22-May-03	626.0	620.6	626.4	625.9	626.3	626.8	626.5	625.6	--	--	--
29-May-03	626.0	620.6	626.4	625.8	626.2	626.7	626.3	625.6	--	--	--
5-Jun-03	626.0	620.6	626.4	625.7	626.1	626.5	626.1	625.5	--	--	--
13-Jun-03	626.0	620.6	626.4	625.7	626.0	626.4	626.0	625.4	--	--	--
20-Jun-03	626.0	620.8	626.7	626.0	626.4	626.8	626.8	625.5	--	--	--
27-Jun-03	626.0	620.7	626.6	626.0	626.4	626.8	626.8	625.5	--	--	--

Notes:
All water level elevations are in feet AMSL
--' indicates no water level was recorded on this date

Figures

MWH



LEGEND

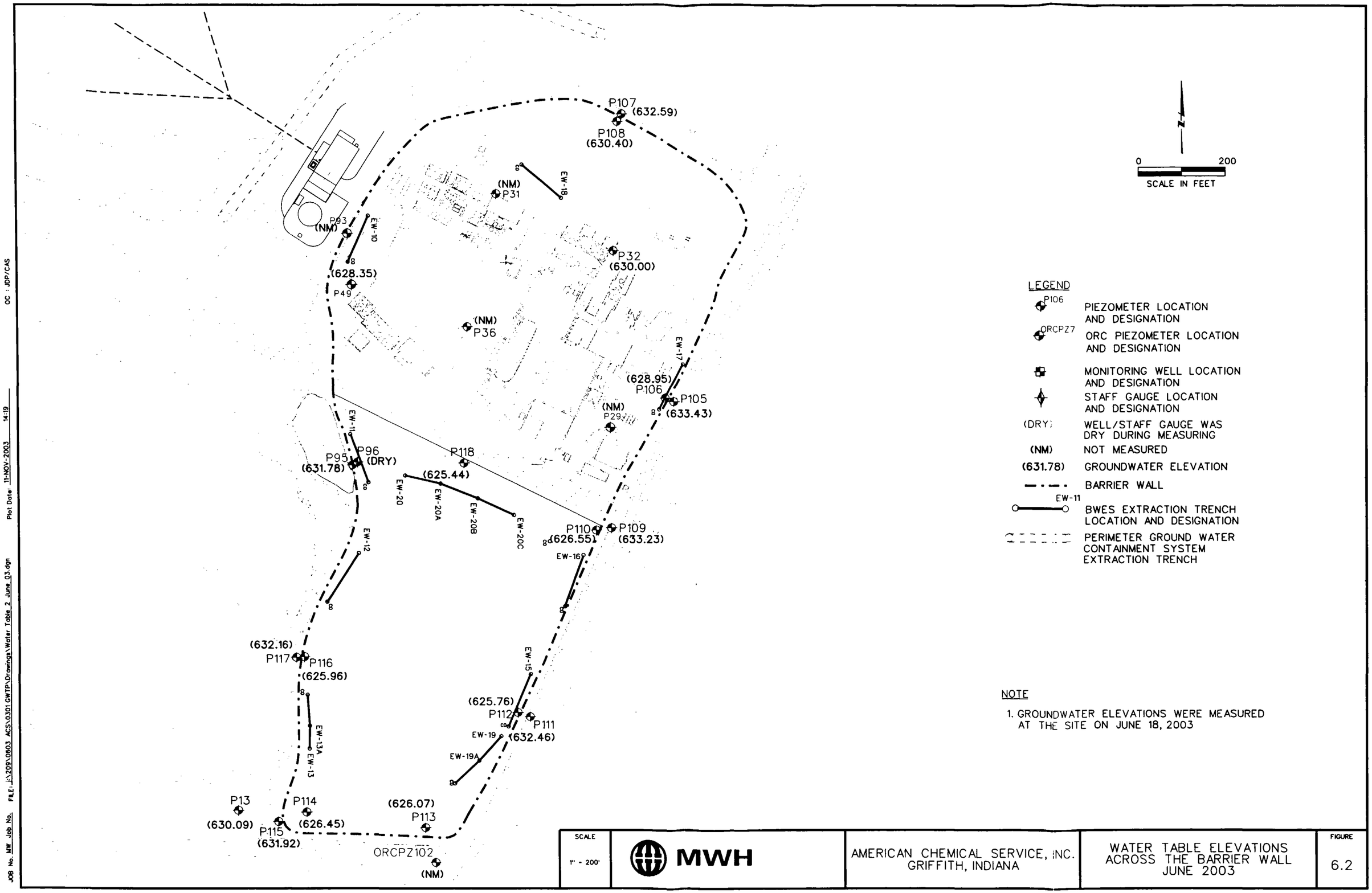
P106	PIEZOMETER LOCATION AND DESIGNATION
ORCPZ7	ORC PIEZOMETER LOCATION AND DESIGNATION
SG13	STAFF GAUGE LOCATION AND DESIGNATION
MW13	MONITORING WELL LOCATION AND DESIGNATION
(DRY)	WELL/STAFF GAUGE WAS DRY DURING MEASURING
(NM)	NOT MEASURED
(630.40)	GROUNDWATER ELEVATION
— · — ·	BARRIER WALL
	PERIMETER GROUND WATER CONTAINMENT SYSTEM EXTRACTION TRENCH
EW-11	BWES EXTRACTION TRENCH LOCATION AND DESIGNATION
—631	GROUNDWATER ELEVATION CONTOUR BASED ON GROUNDWATER ELEVATION DATA
- - -631	CONTOUR LINE DASHED WHERE ELEVATION IS INFERRED

NOTE

1. GROUNDWATER ELEVATIONS WERE MEASURED AT THE SITE ON JUNE 18, 2003.

SCALE				FIGURE
1" = 200'	MWH	AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA	WATER TABLE ELEVATIONS NEAR THE PGCS JUNE 2003	6.1

JOB No. MW Job No. FILE: J:\209\0603 ACS\0301 GWTP\Drawings\Water Table 1 June 03.dgn Plot Date: 11-NOV-2003 14:26 QC : JOP/CAS



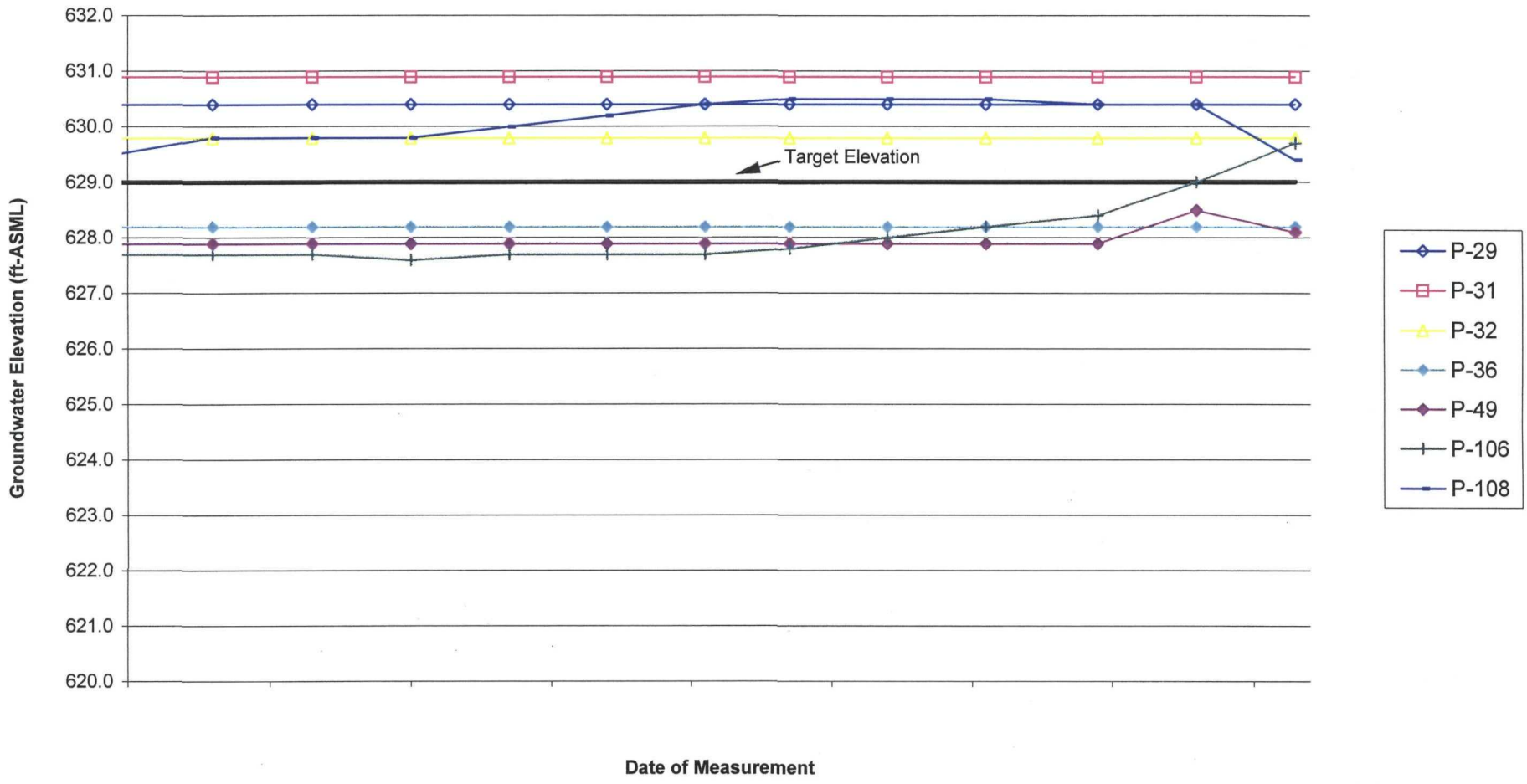
NOTE

1. GROUNDWATER ELEVATIONS WERE MEASURED AT THE SITE ON JUNE 18, 2003

SCALE				FIGURE
1" = 200'	MWH	AMERICAN CHEMICAL SERVICE, INC. GRIFFITH, INDIANA	WATER TABLE ELEVATIONS ACROSS THE BARRIER WALL JUNE 2003	6.2

JOB No. MW Job No. FILE: J:\209\0803 ACS\0301 GWTP\Drawings\Water Table 2 June 03.dgn Plot Date: 11-NOV-2003 14:19 OC : JDP/CAS

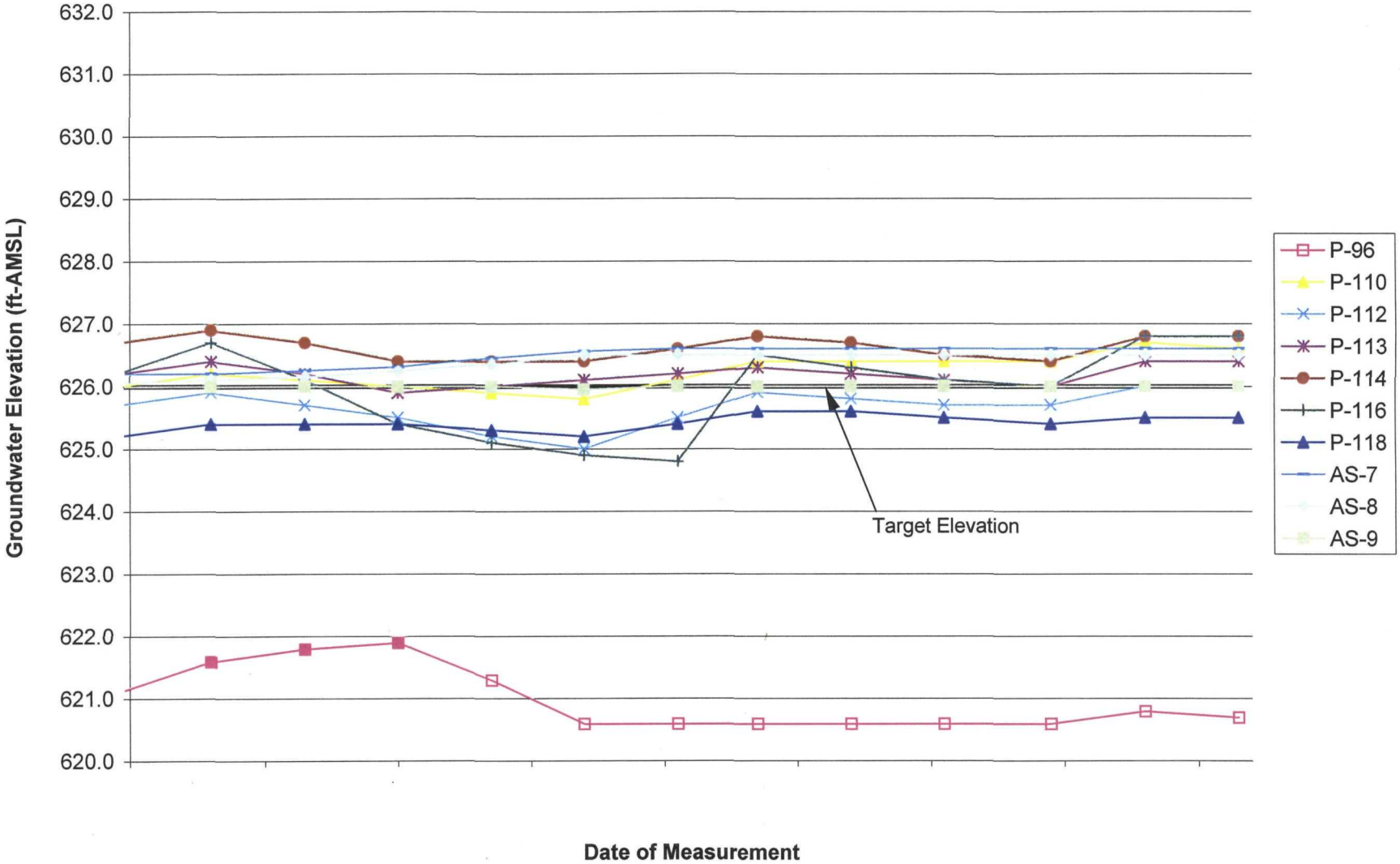
Figure 6.3
Water Level Trends Inside the Barrier Wall (Still Bottoms Pond Area)
ACS NPL Site
Griffith, Indiana



Note: Hollow points represent dry piezometers (data used for graphing purposes only)

JDP/RAA/PJV/jmf
J:\209\603 ACS\0301 GWTP\6030301a051.xls\On-Site Chart 2 for Report

Figure 6.4
Water Level Trends Inside Barrier Wall (Off-Site Area)
ACS NPL Site
Griffith, Indiana



Note: Hollow points represent dry piezometers (data used for graphing purposes only)

JDP/RAA/PJVjmf
J:\209\0603\0301 GWTP\6030301a051.xls\Off-Site Chart 2 for Report

APPENDIX A

EFFLUENT ANALYTICAL DATA

April 8, 2003 Compliance Sample
Laboratory Results

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SX1024

Matrix: (soil/water) WATER Lab Sample ID: SX1024-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: SX1024-1A71

Level: (low/med) LOW Date Received: 04/09/03

% Moisture: not dec. _____ Date Analyzed: 04/16/03

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	1	JB 34BJ
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	0.1	J
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.02	J
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

5/8/03

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SX1024

Matrix: (soil/water) WATER Lab Sample ID: SX1024-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: SX1024-1A71

Level: (low/med) LOW Date Received: 04/09/03

% Moisture: not dec. _____ Date Analyzed: 04/16/03

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
540-59-0	1,2-Dichloroethene (total)	0.5	U
1330-20-7	Xylene (total)	0.5	U

FORM I VOA

5/8/03

10'24A

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SX1024

Matrix: (soil/water) WATER Lab Sample ID: SX1024-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SX1024-1A64

Level: (low/med) LOW Date Received: 04/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 04/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/11/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
111-44-4	Bis(2-chloroethyl)ether	9.6	U
106-44-5	4-Methylphenol	10	U
78-59-1	Isophorone	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	6	U

5/8/03

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SX1024

Matrix: (soil/water) WATER Lab Sample ID: SX1024-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SX1024-1B60

Level: (low/med) LOW Date Received: 04/09/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 04/09/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/16/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-86-5	Pentachlorophenol	0.7	J

5/8/03

10385B

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract: 8082

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SZ1024

Matrix: (soil/water) WATER Lab Sample ID: SZ1024-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 04/09/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:04/10/03

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/28/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2------	Aroclor-1016	0.50	U UJ
11104-28-2------	Aroclor-1221	0.63	U
11141-16-5------	Aroclor-1232	0.50	U
53469-21-9------	Aroclor-1242	0.31	U
12672-29-6------	Aroclor-1248	0.31	U
11097-69-1------	Aroclor-1254	0.31	U
11096-82-5------	Aroclor-1260	0.50	U

6/10/03

FORM I PEST

SW-846 METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SX1024

Matrix (soil/water): WATER Lab Sample ID: SX1024-1

Level (low/med): LOW Date Received: 04/09/03

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	54.7	B		P	UB
7440-36-0	Antimony	1.8	U		P	
7440-38-2	Arsenic	3.6	U		P	
7440-39-3	Barium	78.7			P	B
7440-41-7	Beryllium	0.27	B		P	UB
7440-43-9	Cadmium	0.30	U		P	
7440-70-2	Calcium	68500			P	
7440-47-3	Chromium	1.3	B		P	
7440-48-4	Cobalt	0.90	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	15.0	U		P	
7439-92-1	Lead	1.3	U		P	
7439-95-4	Magnesium	30100			P	B
7439-96-5	Manganese	24.6			P	B
7439-97-6	Mercury	0.10	U	N	CV	UJ
7440-02-0	Nickel	25.9			P	
7440-09-7	Potassium	14400		E	P	BJ
7782-49-2	Selenium	2.1	U		P	
7440-22-4	Silver	0.80	U		P	
7440-23-5	Sodium	200000			P	
7440-28-0	Thallium	3.8	U	N	P	UJ
7440-62-2	Vanadium	0.70	U		P	
7440-66-6	Zinc	0.60	U		P	

5/8/03

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

4-21-2003

~~150~~

SW-846

1-CC

CLASSICAL CHEMISTRY ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: CompuChem Contract:

Lab Code: LIBRTY Case No.: NRAS No.:

SDG No.: SX1024

Matrix (soil/water): WATER Lab Sample ID: SX1024-1

Date Received: 4/9/03 % Solids: 0.00

Concentration Units (mg/L or mg/kg dry weight): mg/L

PARAMETER	CONCENTRATION	C	Q	M	DATE ANALYZED
pH	7.45				4/9/03
TSS	1.00	U			4/9/03

Comments: PH is reported in pH units.

May 15, 2003 Compliance Sample
Laboratory Results

K385A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SA1024

Matrix: (soil/water) WATER Lab Sample ID: SA1024-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: SA1024-1B62

Level: (low/med) LOW Date Received: 05/16/03

% Moisture: not dec. _____ Date Analyzed: 05/27/03

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
74-87-3	Chloromethane	0.5	U	
75-01-4	Vinyl Chloride	0.5	U	
74-83-9	Bromomethane	0.5	U	
75-00-3	Chloroethane	0.5	U	
75-35-4	1,1-Dichloroethene	0.5	U	
75-15-0	Carbon disulfide	0.5	U	
67-64-1	Acetone	5	B	UBJ
75-09-2	Methylene Chloride	0.3	J	
156-60-5	trans-1,2-Dichloroethene	0.5	U	
75-34-3	1,1-Dichloroethane	0.5	U	
156-59-2	cis-1,2-Dichloroethene	0.5	U	
78-93-3	2-butanone	5	U	
67-66-3	Chloroform	0.5	U	
71-55-6	1,1,1-Trichloroethane	0.5	U	
56-23-5	Carbon Tetrachloride	0.5	U	UJ
71-43-2	Benzene	0.5	U	
107-06-2	1,2-Dichloroethane	0.5	U	
79-01-6	Trichloroethene	0.5	U	
78-87-5	1,2-Dichloropropane	0.5	U	
75-27-4	Bromodichloromethane	0.5	U	
10061-01-5	cis-1,3-Dichloropropene	0.5	U	
108-10-1	4-Methyl-2-pentanone	3	U	
108-88-3	Toluene	0.2	J	
10061-02-6	trans-1,3-Dichloropropene	0.5	U	
79-00-5	1,1,2-Trichloroethane	0.5	U	
127-18-4	Tetrachloroethene	0.5	U	
591-78-6	2-hexanone	3	U	
124-48-1	Dibromochloromethane	0.5	U	
108-90-7	Chlorobenzene	0.05	J	
100-41-4	Ethylbenzene	0.5	U	
108-38-3	m,p-Xylene	1	U	
95-47-6	o-Xylene	0.5	U	
100-42-5	Styrene	0.5	U	

FORM I VOA

6/10/03

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: SA1024

Matrix: (soil/water) WATER Lab Sample ID: SA1024-1

Sample wt/vol: 25 (g/ml) ML Lab File ID: SA1024-1B62

Level: (low/med) LOW Date Received: 05/16/03

% Moisture: not dec. _____ Date Analyzed: 05/27/03

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
540-59-0	1,2-Dichloroethene (total)	0.5	U
1330-20-7	Xylene (total)	0.5	U

FORM I VOA

6/10/03

June 30, 2003 Compliance Sample
Laboratory Results

SW-846

1-CC

CLASSICAL CHEMISTRY ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

ıl Name: CompuChem Contract:

ıb Code: LIBRTY Case No.: NRAS No.:

)(No.: 11

ıtrix (soil/water): WATER Lab Sample ID: 1101

ı ; Received: 7/1/03 % Solids: 0.00

Concentration Units (mg/L or mg/kg dry weight): pH units

PARAMETER	CONCENTRATION	C	Q	M	DATE ANALYZED
pH	8.63				7/2/03

7/08/03

Comments:

2

100-18A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11

Matrix: (soil/water) WATER Lab Sample ID: 1101

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1101B62

Level: (low/med) LOW Date Received: 07/01/03

% Moisture: not dec. _____ Date Analyzed: 07/09/03

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.2	JB 0.5UB
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.2	JB 0.5UB
75-00-3	Chloroethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-15-0	Carbon disulfide	0.5	U
67-64-1	Acetone	3	U
75-09-2	Methylene Chloride	0.3	JB 0.5UB
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-butanone	3	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U UJ
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	0.2	J
108-88-3	Toluene	0.2	J
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-hexanone	3	U
124-48-1	Dibromochloromethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m,p-Xylene	0.07	JB 0.5UB
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U

FORM I VOA

7/23/03

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 11

Matrix: (soil/water) WATER Lab Sample ID: 1101

Sample wt/vol: 25 (g/ml) ML Lab File ID: 1101B62

Level: (low/med) LOW Date Received: 07/01/03

% Moisture: not dec. _____ Date Analyzed: 07/09/03

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-25-2	Bromoform	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
540-59-0	1,2-Dichloroethene (total)	0.5	U
1330-20-7	Xylene (total)	0.08	JB 0.5UB

FORM I VOA

7/08/03

APPENDIX B

CATALYTIC OXIDIZER OFF-GAS ANALYTICAL DATA

June 5, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN1 JUN5

ID#: 0306118A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	5.3	11	4.1 J /5	8.7 J
Vinyl Chloride	5.3	14	1.5 J /5	3.8 J
Bromomethane	5.3	21	Not Detected /U	Not Detected
Chloroethane	5.3	14	Not Detected /U	Not Detected
1,1-Dichloroethene	5.3	21	Not Detected /U	Not Detected
Methylene Chloride	5.3	19	4.8 J /5	17 J
1,1-Dichloroethane	5.3	22	1.4 J /5	5.9 J
cis-1,2-Dichloroethene	5.3	21	16	65
Chloroform	5.3	26	Not Detected /U	Not Detected
1,1,1-Trichloroethane	5.3	29	18	99
Carbon Tetrachloride	5.3	34	Not Detected /U	Not Detected
Benzene	5.3	17	13	42
1,2-Dichloroethane	5.3	22	1.1 J /5	4.4 J
Trichloroethene	5.3	29	22	120
1,2-Dichloropropane	5.3	25	Not Detected /U	Not Detected
cis-1,3-Dichloropropene	5.3	24	Not Detected /U	Not Detected
Toluene	5.3	20	260	1000
trans-1,3-Dichloropropene	5.3	24	Not Detected /U	Not Detected
1,1,2-Trichloroethane	5.3	29	Not Detected /U	Not Detected
Tetrachloroethene	5.3	36	130	890
Chlorobenzene	5.3	25	Not Detected /U	Not Detected
Ethyl Benzene	5.3	23	180	780
m,p-Xylene	5.3	23	870	3800
o-Xylene	5.3	23	360	1600
Styrene	5.3	23	Not Detected /U	Not Detected
1,1,2,2-Tetrachloroethane	5.3	37	Not Detected /U	Not Detected
Acetone	21	51	1100	2700
Carbon Disulfide	21	67	Not Detected /U	Not Detected
trans-1,2-Dichloroethene	21	85	Not Detected /U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21	64	3.2 J /5	9.6 J
Bromodichloromethane	21	140	Not Detected /U	Not Detected
4-Methyl-2-pentanone	21	88	Not Detected /U	Not Detected
2-Hexanone	21	88	Not Detected /U	Not Detected
Dibromochloromethane	21	180	Not Detected /U	Not Detected
Bromoform	21	220	Not Detected /U	Not Detected

J = Estimated value.

Container Type: 6 Liter Silonite Canister

CS 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN1 JUN5

ID#: 0306118A-02A

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

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN2 JUN5

ID#: 0306118A-03A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	6.7	14	Not Detected /U	Not Detected
Vinyl Chloride	6.7	17	1.6 J /J	4.3 J
Bromomethane	6.7	26	Not Detected /U	Not Detected
Chloroethane	6.7	18	Not Detected /U	Not Detected
1,1-Dichloroethene	6.7	27	Not Detected /U	Not Detected
Methylene Chloride	6.7	24	5.5 J /J	19 J
1,1-Dichloroethane	6.7	28	1.2 J /J	4.9 J
cis-1,2-Dichloroethene	6.7	27	18	73
Chloroform	6.7	33	Not Detected /U	Not Detected
1,1,1-Trichloroethane	6.7	37	21	110
Carbon Tetrachloride	6.7	43	Not Detected /U	Not Detected
Benzene	6.7	22	14	45
1,2-Dichloroethane	6.7	28	Not Detected /U	Not Detected
Trichloroethene	6.7	36	27	150
1,2-Dichloropropane	6.7	31	Not Detected /U	Not Detected
cis-1,3-Dichloropropene	6.7	31	Not Detected /U	Not Detected
Toluene	6.7	26	300	1100
trans-1,3-Dichloropropene	6.7	31	Not Detected /U	Not Detected
1,1,2-Trichloroethane	6.7	37	2.2 J /J	12 J
Tetrachloroethene	6.7	46	140	1000
Chlorobenzene	6.7	31	1.1 J /J	5.1 J
Ethyl Benzene	6.7	30	200	880
m,p-Xylene	6.7	30	990	4400
o-Xylene	6.7	30	420	1800
Styrene	6.7	29	Not Detected /U	Not Detected
1,1,2,2-Tetrachloroethane	6.7	47	Not Detected /U	Not Detected
Acetone	27	65	1300	3100
Carbon Disulfide	27	85	Not Detected /U	Not Detected
trans-1,2-Dichloroethene	27	110	Not Detected /U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	27	80	3.6 J /J	11 J
Bromodichloromethane	27	180	Not Detected /U	Not Detected
4-Methyl-2-pentanone	27	110	Not Detected /U	Not Detected
2-Hexanone	27	110	Not Detected /U	Not Detected
Dibromochloromethane	27	230	Not Detected /U	Not Detected
Bromoform	27	280	Not Detected /U	Not Detected

J = Estimated value.

CS

Container Type: 6 Liter Silonite Canister

9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN2 JUN5

ID#: 0306118A-03A

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

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 EF1 JUN5

ID#: 0306118A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	0.68	1.4	1.3	2.6
Vinyl Chloride	0.68	1.8	1.2	3.0
Bromomethane	0.68	2.7	0.84	3.3
Chloroethane	0.68	1.8	1.3	3.4
1,1-Dichloroethene	0.68	2.7	0.80	3.2
Methylene Chloride	0.68	2.4	1.2	4.4
1,1-Dichloroethane	0.68	2.8	0.20 J 15	0.81 J
cis-1,2-Dichloroethene	0.68	2.7	12	49
Chloroform	0.68	3.4	0.37 J	1.8 J 15
1,1,1-Trichloroethane	0.68	3.8	0.76	4.2
Carbon Tetrachloride	0.68	4.3	Not Detected	Not Detected 1U
Benzene	0.68	2.2	11	35
1,2-Dichloroethane	0.68	2.8	0.11 J	0.46 J 15
Trichloroethene	0.68	3.7	1.8	9.7
1,2-Dichloropropane	0.68	3.2	Not Detected	Not Detected 1U
cis-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected 1U
Toluene	0.68	2.6	16	62
trans-1,3-Dichloropropene	0.68	3.1	Not Detected	Not Detected 1U
1,1,2-Trichloroethane	0.68	3.8	Not Detected	Not Detected 1U
Tetrachloroethene	0.68	4.7	26	180
Chlorobenzene	0.68	3.2	0.52 J	2.4 J 15
Ethyl Benzene	0.68	3.0	8.3	37
m,p-Xylene	0.68	3.0	40	180
o-Xylene	0.68	3.0	16	73
Styrene	0.68	2.9	1.2	5.2
1,1,2,2-Tetrachloroethane	0.68	4.7	Not Detected	Not Detected 1U
Acetone	2.7	6.6	60	150
Carbon Disulfide	2.7	8.6	0.43 J	1.4 J 15
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected 1U
2-Butanone (Methyl Ethyl Ketone)	2.7	8.2	2.5 J	7.6 J 15
Bromodichloromethane	2.7	18	Not Detected	Not Detected 1U
4-Methyl-2-pentanone	2.7	11	0.40 J	1.7 J 15
2-Hexanone	2.7	11	Not Detected	Not Detected 1U
Dibromochloromethane	2.7	24	Not Detected	Not Detected 1U
Bromoform	2.7	28	Not Detected	Not Detected 1U

J = Estimated value.

Container Type: 6 Liter Silonite Canister

CS 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 EF1 JUN5

ID#: 0306118A-01A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN1 JUN5

ID#: 0306118B-02A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected /U
bis(2-Chloroethyl) Ether	1.0	Not Detected /U
2-Chlorophenol	5.0	Not Detected /U
1,3-Dichlorobenzene	1.0	Not Detected /U
1,4-Dichlorobenzene	1.0	Not Detected /U
1,2-Dichlorobenzene	1.0	0.97 J /J
2-Methylphenol (o-Cresol)	5.0	Not Detected /U
N-Nitroso-di-n-propylamine	1.0	Not Detected /U
4-Methylphenol	5.0	Not Detected /U
Hexachloroethane	1.0	Not Detected /U
Nitrobenzene	1.0	Not Detected /U
Isophorone	1.0	Not Detected /U
2-Nitrophenol	5.0	Not Detected /U
2,4-Dimethylphenol	5.0	Not Detected /U
bis(2-Chloroethoxy) Methane	1.0	Not Detected /U
2,4-Dichlorophenol	5.0	Not Detected /U
1,2,4-Trichlorobenzene	1.0	Not Detected /U
Naphthalene	1.0	Not Detected /U
4-Chloroaniline	10	Not Detected /U
Hexachlorobutadiene	1.0	Not Detected /U
4-Chloro-3-methylphenol	5.0	Not Detected /U
2-Methylnaphthalene	1.0	Not Detected /U
Hexachlorocyclopentadiene	20	Not Detected /U
2,4,6-Trichlorophenol	5.0	Not Detected /U
2,4,5-Trichlorophenol	5.0	Not Detected /U
2-Chloronaphthalene	1.0	Not Detected /U
2-Nitroaniline	10	Not Detected /U
Dimethylphthalate	5.0	Not Detected /U
Acenaphthylene	1.0	Not Detected /U
2,6-Dinitrotoluene	5.0	Not Detected /U
3-Nitroaniline	10	Not Detected /U
Acenaphthene	1.0	Not Detected /U
2,4-Dinitrophenol	20	Not Detected /U
4-Nitrophenol	20	Not Detected /U
2,4-Dinitrotoluene	5.0	Not Detected /U
Dibenzofuran	1.0	Not Detected /U
Diethylphthalate	5.0	Not Detected /U
Fluorene	1.0	Not Detected /U
4-Chlorophenyl-phenyl Ether	1.0	Not Detected /U
4-Nitroaniline	10	Not Detected /U
4,6-Dinitro-2-methylphenol	10	Not Detected /U

CS
9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN1 JUN5

ID#: 0306118B-02A

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

[redacted]	[redacted]	[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected /U
4-Bromophenyl-phenyl Ether	1.0	Not Detected /U
Hexachlorobenzene	1.0	Not Detected /U
Pentachlorophenol	20	Not Detected /U
Phenanthrene	1.0	Not Detected /U
Anthracene	1.0	Not Detected /U
di-n-Butylphthalate	5.0	0.62 J /J
Fluoranthene	1.0	Not Detected /U
Pyrene	1.0	Not Detected /U CS
Butylbenzylphthalate	5.0	6.0
3,3'-Dichlorobenzidine	20	Not Detected /U
Chrysene	1.0	Not Detected /U
Benzo(a)anthracene	1.0	Not Detected /U
bis(2-Ethylhexyl)phthalate	5.0	0.87 J /J
Di-n-Octylphthalate	5.0	0.88 J /J
Benzo(b)fluoranthene	1.0	Not Detected /U
Benzo(k)fluoranthene	1.0	Not Detected /U
Benzo(a)pyrene	1.0	Not Detected /U
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected /U
Dibenz(a,h)anthracene	1.0	Not Detected /U
Benzo(g,h,i)perylene	1.0	Not Detected /U

J = Estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	50-150
Phenol-d5	62	50-150
Nitrobenzene-d5	55	50-150
2-Fluorobiphenyl	64	60-120
2,4,6-Tribromophenol	78	50-150
Terphenyl-d14	75	60-120

CS
9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN2 JUN5

ID#: 0306118B-03A

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

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

LS 01/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 IN2 JUN5

ID#: 0306118B-03A

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

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
		[illegible]

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	1.5 J
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.3 J
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	50-150
Phenol-d5	71	50-150
Nitrobenzene-d5	60	50-150
2-Fluorobiphenyl	72	60-120
2,4,6-Tribromophenol	86	50-150
Terphenyl-d14	86	60-120

CS 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 EF1 JUN5

ID#: 0306118B-01A

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

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

CS 4/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME106 EF1 JUN5

ID#: 0306118B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected /U
4-Bromophenyl-phenyl Ether	1.0	Not Detected /U
Hexachlorobenzene	1.0	Not Detected /U
Pentachlorophenol	20	Not Detected /U
Phenanthrene	1.0	Not Detected /U
Anthracene	1.0	Not Detected /U
di-n-Butylphthalate	5.0	0.47 J ~~J~~ CS
Fluoranthene	1.0	Not Detected /U
Pyrene	1.0	Not Detected /U
Butylbenzylphthalate	5.0	Not Detected /U
3,3'-Dichlorobenzidine	20	Not Detected /U
Chrysene	1.0	Not Detected /U
Benzo(a)anthracene	1.0	Not Detected /U
bis(2-Ethylhexyl)phthalate	5.0	4.2 J ~~J~~ CS
Di-n-Octylphthalate	5.0	Not Detected /U
Benzo(b)fluoranthene	1.0	Not Detected /U
Benzo(k)fluoranthene	1.0	Not Detected /U
Benzo(a)pyrene	1.0	Not Detected /U
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected /U
Dibenz(a,h)anthracene	1.0	Not Detected /U
Benzo(g,h,i)perylene	1.0	Not Detected /U

J = Estimated value.

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	66	50-150
Phenol-d5	72	50-150
Nitrobenzene-d5	63	50-150
2-Fluorobiphenyl	73	60-120
2,4,6-Tribromophenol	87	50-150
Terphenyl-d14	82	60-120

CS
9/13/03

APPENDIX C

THERMAL OXIDIZER OFF-GAS ANALYTICAL DATA

April 10, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 APR10

ID#: 0304256A-01A

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

File Name	[illegible]	Date of Collection	[illegible]
Dil. Factor	[illegible]	Date of Analysis	[illegible]

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1300	2800	Not Detected	Not Detected
Vinyl Chloride	1300	3400	1500	3800
Bromomethane	1300	5200	Not Detected	Not Detected
Chloroethane	1300	3500	Not Detected	Not Detected
1,1-Dichloroethene	1300	5300	7200	29000
Methylene Chloride	1300	4700	150000	550000
1,1-Dichloroethane	1300	5400	17000	71000
cis-1,2-Dichloroethene	1300	5300	46000	190000
Chloroform	1300	6600	5800	28000
1,1,1-Trichloroethane	1300	7300	92000	510000
Carbon Tetrachloride	1300	8400	Not Detected	Not Detected
Benzene	1300	4300	110000	360000
1,2-Dichloroethane	1300	5400	2800	12000
Trichloroethene	1300	7200	68000	370000
1,2-Dichloropropane	1300	6200	1200 J /J	5600 J /
cis-1,3-Dichloropropene	1300	6100	Not Detected	Not Detected
Toluene	1300	5000	400000	1500000
trans-1,3-Dichloropropene	1300	6100	Not Detected	Not Detected
1,1,2-Trichloroethane	1300	7300	Not Detected	Not Detected
Tetrachloroethene	1300	9100	55000	380000
Chlorobenzene	1300	6200	Not Detected	Not Detected
Ethyl Benzene	1300	5800	32000	140000
m,p-Xylene	1300	5800	140000	620000
o-Xylene	1300	5800	41000	180000
Styrene	1300	5700	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1300	9200	Not Detected	Not Detected
Acetone	5300	13000	70000	170000
Carbon Disulfide	5300	17000	Not Detected	Not Detected
trans-1,2-Dichloroethene	5300	21000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5300	16000	67000	200000
Bromodichloromethane	5300	36000	Not Detected	Not Detected
4-Methyl-2-pentanone	5300	22000	20000	85000
2-Hexanone	5300	22000	Not Detected	Not Detected
Dibromochloromethane	5300	46000	Not Detected	Not Detected
Bromoform	5300	55000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Silonite Canister

LH
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 APR10

ID#: 0304256A-01A

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

[illegible]	[illegible]	Date of Collection: [illegible]	
Volume:	620	Date of Analysis: [illegible]	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

LH
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 APR10

ID#: 0304256A-02A

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

File Name:	[illegible]	Date of Collection: [illegible]
Dil Fac:	[illegible]	Date of Analysis: [illegible]

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1800	3700	Not Detected	Not Detected
Vinyl Chloride	1800	4600	2000	5300
Bromomethane	1800	7000	Not Detected	Not Detected
Chloroethane	1800	4800	Not Detected	Not Detected
1,1-Dichloroethene	1800	7200	7900	32000
Methylene Chloride	1800	6300	200000	690000
1,1-Dichloroethane	1800	7300	22000	92000
cis-1,2-Dichloroethene	1800	7200	59000	240000
Chloroform	1800	8800	7400	37000
1,1,1-Trichloroethane	1800	9900	120000	660000
Carbon Tetrachloride	1800	11000	Not Detected	Not Detected
Benzene	1800	5800	140000	450000
1,2-Dichloroethane	1800	7300	3300	14000
Trichloroethene	1800	9800	85000	470000
1,2-Dichloropropane	1800	8400	Not Detected	Not Detected
cis-1,3-Dichloropropene	1800	8200	Not Detected	Not Detected
Toluene	1800	6800	510000	2000000
trans-1,3-Dichloropropene	1800	8200	Not Detected	Not Detected
1,1,2-Trichloroethane	1800	9900	Not Detected	Not Detected
Tetrachloroethene	1800	12000	70000	480000
Chlorobenzene	1800	8400	Not Detected	Not Detected
Ethyl Benzene	1800	7900	42000	180000
m,p-Xylene	1800	7900	180000	780000
o-Xylene	1800	7900	53000	230000
Styrene	1800	7700	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1800	12000	Not Detected	Not Detected
Acetone	7100	17000	90000	220000
Carbon Disulfide	7100	22000	Not Detected	Not Detected
trans-1,2-Dichloroethene	7100	29000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7100	21000	87000	260000
Bromodichloromethane	7100	49000	Not Detected	Not Detected
4-Methyl-2-pentanone	7100	30000	26000	110000
2-Hexanone	7100	30000	1200 J JS	4800 J
Dibromochloromethane	7100	62000	Not Detected	Not Detected
Bromoform	7100	75000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Silonite Canister

LH
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 APR10

ID#: 0304256A-02A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

LH 5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 APR10

ID#: 0304256B-01A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	5.6
1,4-Dichlorobenzene	1.0	16
1,2-Dichlorobenzene	1.0	110
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	18
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.86 J 15
Naphthalene	1.0	57
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	2.0
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.9
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LA
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 APR10

ID#: 0304256B-01A

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

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

J = Estimated value.

* Surrogate was outside of control limits due to matrix interference.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	0 *	50-150
Phenol-d5	94	50-150
Nitrobenzene-d5	98	50-150
2-Fluorobiphenyl	88	60-120
2,4,6-Tribromophenol	61	50-150
Terphenyl-d14	90	60-120

LH
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 APR10

ID#: 0304256B-02A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	4.2
1,4-Dichlorobenzene	1.0	12
1,2-Dichlorobenzene	1.0	88
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	14
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.70 J 15
Naphthalene	1.0	48
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.0
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH
5/29/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 APR10

ID#: 0304256B-02A

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

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	23 Q	50-150
Phenol-d5	93	50-150
Nitrobenzene-d5	91	50-150
2-Fluorobiphenyl	86	60-120
2,4,6-Tribromophenol	63	50-150
Terphenyl-d14	86	60-120

LH
5/29/03

May 1, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYA

ID#: 0305027A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1400	3000	Not Detected	Not Detected
Vinyl Chloride	1400	3700	930 J	2400 J
Bromomethane	1400	5600	Not Detected	Not Detected
Chloroethane	1400	3800	Not Detected	Not Detected
1,1-Dichloroethene	1400	5700	10000	42000
Methylene Chloride	1400	5000	120000	420000
1,1-Dichloroethane	1400	5800	14000	60000
cis-1,2-Dichloroethene	1400	5700	53000	210000
Chloroform	1400	7000	6600	33000
1,1,1-Trichloroethane	1400	7800	120000	650000
Carbon Tetrachloride	1400	9000	Not Detected	Not Detected
Benzene	1400	4600	110000	350000
1,2-Dichloroethane	1400	5800	3000	12000
Trichloroethene	1400	7700	81000	440000
1,2-Dichloropropane	1400	6600	1200 J	5400 J
cis-1,3-Dichloropropene	1400	6500	Not Detected	Not Detected
Toluene	1400	5400	510000	1900000
trans-1,3-Dichloropropene	1400	6500	Not Detected	Not Detected
1,1,2-Trichloroethane	1400	7800	Not Detected	Not Detected
Tetrachloroethene	1400	9700	84000	580000
Chlorobenzene	1400	6600	Not Detected	Not Detected
Ethyl Benzene	1400	6200	51000	230000
m,p-Xylene	1400	6200	260000	1200000
o-Xylene	1400	6200	82000	360000
Styrene	1400	6100	4200	18000
1,1,2,2-Tetrachloroethane	1400	9800	Not Detected	Not Detected
Acetone	5600	14000	60000	150000
Carbon Disulfide	5600	18000	Not Detected	Not Detected
trans-1,2-Dichloroethene	5600	23000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	17000	65000	200000
Bromodichloromethane	5600	38000	Not Detected	Not Detected
4-Methyl-2-pentanone	5600	23000	22000	94000
2-Hexanone	5600	23000	Not Detected	Not Detected
Dibromochloromethane	5600	49000	Not Detected	Not Detected
Bromoform	5600	59000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130

LH

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYA

ID#: 0305027A-01A

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

[redacted]

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYA

ID#: 0305027A-02A

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

[redacted]

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1400	3000	Not Detected	Not Detected
Vinyl Chloride	1400	3700	Not Detected	Not Detected
Bromomethane	1400	5600	Not Detected	Not Detected
Chloroethane	1400	3800	Not Detected	Not Detected
1,1-Dichloroethene	1400	5700	10000	40000
Methylene Chloride	1400	5000	120000	440000
1,1-Dichloroethane	1400	5800	15000	61000
cis-1,2-Dichloroethene	1400	5700	54000	220000
Chloroform	1400	7000	6800	34000
1,1,1-Trichloroethane	1400	7800	120000	650000
Carbon Tetrachloride	1400	9000	Not Detected	Not Detected
Benzene	1400	4600	110000	350000
1,2-Dichloroethane	1400	5800	2900	12000
Trichloroethene	1400	7700	80000	440000
1,2-Dichloropropane	1400	6600	1200 J J	5400 J
cis-1,3-Dichloropropene	1400	6500	Not Detected	Not Detected
Toluene	1400	5400	510000	2000000
trans-1,3-Dichloropropene	1400	6500	Not Detected	Not Detected
1,1,2-Trichloroethane	1400	7800	Not Detected	Not Detected
Tetrachloroethene	1400	9700	85000	580000
Chlorobenzene	1400	6600	Not Detected	Not Detected
Ethyl Benzene	1400	6200	52000	230000
m,p-Xylene	1400	6200	270000	1200000
o-Xylene	1400	6200	83000	370000
Styrene	1400	6100	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1400	9800	Not Detected	Not Detected
Acetone	5600	14000	62000	150000
Carbon Disulfide	5600	18000	Not Detected	Not Detected
trans-1,2-Dichloroethene	5600	23000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	17000	68000	200000
Bromodichloromethane	5600	38000	Not Detected	Not Detected
4-Methyl-2-pentanone	5600	23000	23000	97000
2-Hexanone	5600	23000	Not Detected	Not Detected
Dibromochloromethane	5600	49000	Not Detected	Not Detected
Bromoform	5600	59000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYA

ID#: 0305027A-02A

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

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYA

ID#: 0305027B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	7.0
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	6.1
1,4-Dichlorobenzene	1.0	18
1,2-Dichlorobenzene	1.0	120
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	3.7 J /J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	22
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.6
Naphthalene	1.0	42
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.9
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.0
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYA

ID#: 0305027B-01A

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

[redacted]

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	25 Q	50-150
Phenol-d5	97	50-150
Nitrobenzene-d5	91	50-150
2-Fluorobiphenyl	83	60-120
2,4,6-Tribromophenol	75	50-150
Terphenyl-d14	86	60-120

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYA

ID#: 0305027B-02A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	7.6
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	6.3
1,4-Dichlorobenzene	1.0	19
1,2-Dichlorobenzene	1.0	130
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	3.8 J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	24
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.6
Naphthalene	1.0	45
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.9
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.1
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYA

ID#: 0305027B-02A

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

[redacted]

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	27 Q	50-150
Phenol-d5	100	50-150
Nitrobenzene-d5	91	50-150
2-Fluorobiphenyl	86	60-120
2,4,6-Tribromophenol	72	50-150
Terphenyl-d14	89	60-120

LH 6/24/07

May 8, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYB

ID#: 0305157A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1700	3500	Not Detected	Not Detected
Vinyl Chloride	1700	4400	800 J /J	2100 J
Bromomethane	1700	6600	Not Detected	Not Detected
Chloroethane	1700	4500	Not Detected /UJ	Not Detected
1,1-Dichloroethene	1700	6800	3000	12000
Methylene Chloride	1700	5900	120000	410000
1,1-Dichloroethane	1700	6900	18000	72000
cis-1,2-Dichloroethene	1700	6800	54000	220000
Chloroform	1700	8300	7700	38000
1,1,1-Trichloroethane	1700	9300	150000	840000
Carbon Tetrachloride	1700	11000	Not Detected	Not Detected
Benzene	1700	5400	110000	360000
1,2-Dichloroethane	1700	6900	3800	16000
Trichloroethene	1700	9100	82000	450000
1,2-Dichloropropane	1700	7900	1300 J /J	6100 J
cis-1,3-Dichloropropene	1700	7700	Not Detected	Not Detected
Toluene	1700	6400	520000	2000000
trans-1,3-Dichloropropene	1700	7700	Not Detected	Not Detected
1,1,2-Trichloroethane	1700	9300	Not Detected	Not Detected
Tetrachloroethene	1700	12000	89000	610000
Chlorobenzene	1700	7800	1300 J /J	6200 J
Ethyl Benzene	1700	7400	50000	220000
m,p-Xylene	1700	7400	230000	1000000
o-Xylene	1700	7400	70000	310000
Styrene	1700	7200	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1700	12000	Not Detected	Not Detected
Acetone	6700	16000	99000	240000
Carbon Disulfide	6700	21000	6400 J /J	20000 J
trans-1,2-Dichloroethene	6700	27000	590 J /J	2400 J
2-Butanone (Methyl Ethyl Ketone)	6700	20000	75000	230000
Bromodichloromethane	6700	46000	Not Detected	Not Detected
4-Methyl-2-pentanone	6700	28000	23000	96000
2-Hexanone	6700	28000	Not Detected	Not Detected
Dibromochloromethane	6700	58000	Not Detected	Not Detected
Bromoform	6700	70000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYB

ID#: 0305157A-01A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYB

ID#: 0305157A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1900	4100	Not Detected	Not Detected
Vinyl Chloride	1900	5000	630 J	1600 J
Bromomethane	1900	7600	Not Detected	Not Detected
Chloroethane	1900	5200	Not Detected	Not Detected
1,1-Dichloroethene	1900	7800	3400	14000
Methylene Chloride	1900	6800	130000	450000
1,1-Dichloroethane	1900	8000	19000	78000
cis-1,2-Dichloroethene	1900	7800	63000	250000
Chloroform	1900	9600	8400	42000
1,1,1-Trichloroethane	1900	11000	160000	890000
Carbon Tetrachloride	1900	12000	Not Detected	Not Detected
Benzene	1900	6300	120000	390000
1,2-Dichloroethane	1900	8000	3400	14000
Trichloroethene	1900	10000	86000	470000
1,2-Dichloropropane	1900	9100	1500 J	7000 J
cis-1,3-Dichloropropene	1900	8900	Not Detected	Not Detected
Toluene	1900	7400	580000	2200000
trans-1,3-Dichloropropene	1900	8900	Not Detected	Not Detected
1,1,2-Trichloroethane	1900	11000	Not Detected	Not Detected
Tetrachloroethene	1900	13000	100000	690000
Chlorobenzene	1900	9100	Not Detected	Not Detected
Ethyl Benzene	1900	8600	55000	240000
m,p-Xylene	1900	8600	270000	1200000
o-Xylene	1900	8600	80000	350000
Styrene	1900	8400	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1900	14000	Not Detected	Not Detected
Acetone	7800	19000	110000	260000
Carbon Disulfide	7800	24000	2200 J	6900 J
trans-1,2-Dichloroethene	7800	31000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7800	23000	86000	260000
Bromodichloromethane	7800	53000	Not Detected	Not Detected
4-Methyl-2-pentanone	7800	32000	25000	100000
2-Hexanone	7800	32000	Not Detected	Not Detected
Dibromochloromethane	7800	67000	Not Detected	Not Detected
Bromoform	7800	82000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYB

ID#: 0305157A-02A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EFF1 MAYB

ID#: 0305157A-03A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	14	29	52	110
Vinyl Chloride	14	36	46	120
Bromomethane	14	55	Not Detected	Not Detected
Chloroethane	14	37	Not Detected /UJ	Not Detected
1,1-Dichloroethene	14	56	250	1000
Methylene Chloride	14	49	930	3300
1,1-Dichloroethane	14	57	120	480
cis-1,2-Dichloroethene	14	56	400	1600
Chloroform	14	69	60	300
1,1,1-Trichloroethane	14	77	890	4900
Carbon Tetrachloride	14	89	Not Detected	Not Detected
Benzene	14	45	1100	3600
1,2-Dichloroethane	14	57	29	120
Trichloroethene	14	76	700	3800
1,2-Dichloropropane	14	65	10 J /J	47 J
cis-1,3-Dichloropropene	14	64	Not Detected	Not Detected
Toluene	14	53	3500	13000
trans-1,3-Dichloropropene	14	64	Not Detected	Not Detected
1,1,2-Trichloroethane	14	77	Not Detected	Not Detected
Tetrachloroethene	14	96	840	5800
Chlorobenzene	14	65	6.9 J /J	32 J
Ethyl Benzene	14	61	280	1200
m,p-Xylene	14	61	1300	5800
o-Xylene	14	61	390	1700
Styrene	14	60	70	300
1,1,2,2-Tetrachloroethane	14	97	Not Detected	Not Detected
Acetone	56	130	840	2000
Carbon Disulfide	56	180	8.4 J /J	26 J
trans-1,2-Dichloroethene	56	220	53 J /J	210 J
2-Butanone (Methyl Ethyl Ketone)	56	170	480	1400
Bromodichloromethane	56	380	Not Detected	Not Detected
4-Methyl-2-pentanone	56	230	98	410
2-Hexanone	56	230	7.4 J /J	31 J
Dibromochloromethane	56	480	Not Detected	Not Detected
Bromoform	56	580	Not Detected	Not Detected

J = Estimated value.

LH
6/24/03

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EFF1 MAYB

ID#: 0305157A-03A

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYB

ID#: 0305157B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	8.8
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	6.6
1,4-Dichlorobenzene	1.0	20
1,2-Dichlorobenzene	1.0	140
2-Methylphenol (o-Cresol)	5.0	3.0 J /J
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	5.3
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	29
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.0
Naphthalene	1.0	54
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	2.5
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	7.5
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAYB

ID#: 0305157B-01A

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

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	25 Q	50-150
Phenol-d5	99	50-150
Nitrobenzene-d5	94	50-150
2-Fluorobiphenyl	88	60-120
2,4,6-Tribromophenol	78	50-150
Terphenyl-d14	92	60-120

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYB

ID#: 0305157B-02A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	6.0
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	4.6
1,4-Dichlorobenzene	1.0	14
1,2-Dichlorobenzene	1.0	95
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	3.7 J /J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	20
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.4
Naphthalene	1.0	37
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.6
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	4.9
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH 1/12/41

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAYB

ID#: 0305157B-02A

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

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	29 Q	50-150
Phenol-d5	90	50-150
Nitrobenzene-d5	95	50-150
2-Fluorobiphenyl	88	60-120
2,4,6-Tribromophenol	76	50-150
Terphenyl-d14	90	60-120

LH 6/24/16

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EFF1 MAYB

ID#: 0305157B-03A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	0.69 J
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH 1/24/10

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EFF1 MAYB

ID#: 0305157B-03A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	9.6
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	50-150
Phenol-d5	80	50-150
Nitrobenzene-d5	76	50-150
2-Fluorobiphenyl	81	60-120
2,4,6-Tribromophenol	75	50-150
Terphenyl-d14	85	60-120

LH
6/24/10

May 15, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY15

ID#: 0305317A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	2700	5600	Not Detected	Not Detected
Vinyl Chloride	2700	7000	Not Detected	Not Detected
Bromomethane	2700	10000	Not Detected	Not Detected
Chloroethane	2700	7200	Not Detected /UJ	Not Detected
1,1-Dichloroethene	2700	11000	3900	16000
Methylene Chloride	2700	9500	110000	400000
1,1-Dichloroethane	2700	11000	17000	68000
cis-1,2-Dichloroethene	2700	11000	54000	220000
Chloroform	2700	13000	7100	35000
1,1,1-Trichloroethane	2700	15000	140000	810000
Carbon Tetrachloride	2700	17000	Not Detected	Not Detected
Benzene	2700	8700	110000	340000
1,2-Dichloroethane	2700	11000	4500	18000
Trichloroethene	2700	15000	87000	480000
1,2-Dichloropropane	2700	12000	1500 J /J	7000 J /J
cis-1,3-Dichloropropene	2700	12000	Not Detected	Not Detected
Toluene	2700	10000	650000	2500000
trans-1,3-Dichloropropene	2700	12000	Not Detected	Not Detected
1,1,2-Trichloroethane	2700	15000	Not Detected	Not Detected
Tetrachloroethene	2700	18000	93000	640000
Chlorobenzene	2700	12000	Not Detected	Not Detected
Ethyl Benzene	2700	12000	58000	260000
m,p-Xylene	2700	12000	240000	1100000
o-Xylene	2700	12000	69000	300000
Styrene	2700	12000	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2700	19000	Not Detected	Not Detected
Acetone	11000	26000	92000	220000
Carbon Disulfide	11000	34000	3800 J /J	12000 J /J
trans-1,2-Dichloroethene	11000	43000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	32000	82000	240000
Bromodichloromethane	11000	73000	Not Detected	Not Detected
4-Methyl-2-pentanone	11000	45000	28000	120000
2-Hexanone	11000	45000	Not Detected	Not Detected
Dibromochloromethane	11000	93000	Not Detected	Not Detected
Bromoform	11000	110000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	106	70-130

UH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY15

ID#: 0305317A-01A

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

[redacted]

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

LH 6/24/07

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY15

ID#: 0305317A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	2700	5600	Not Detected	Not Detected
Vinyl Chloride	2700	7000	Not Detected	Not Detected
Bromomethane	2700	10000	Not Detected	Not Detected
Chloroethane	2700	7200	Not Detected /UJ	Not Detected
1,1-Dichloroethene	2700	11000	4100	16000
Methylene Chloride	2700	9500	110000	390000
1,1-Dichloroethane	2700	11000	17000	70000
cis-1,2-Dichloroethene	2700	11000	53000	210000
Chloroform	2700	13000	6500	32000
1,1,1-Trichloroethane	2700	15000	140000	770000
Carbon Tetrachloride	2700	17000	Not Detected	Not Detected
Benzene	2700	8700	98000	320000
1,2-Dichloroethane	2700	11000	3600	15000
Trichloroethene	2700	15000	78000	420000
1,2-Dichloropropane	2700	12000	1400 J /J	6400 J
cis-1,3-Dichloropropene	2700	12000	Not Detected	Not Detected
Toluene	2700	10000	600000	2300000
trans-1,3-Dichloropropene	2700	12000	Not Detected	Not Detected
1,1,2-Trichloroethane	2700	15000	Not Detected	Not Detected
Tetrachloroethene	2700	18000	88000	610000
Chlorobenzene	2700	12000	Not Detected	Not Detected
Ethyl Benzene	2700	12000	57000	250000
m,p-Xylene	2700	12000	230000	1000000
o-Xylene	2700	12000	68000	300000
Styrene	2700	12000	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	2700	19000	Not Detected	Not Detected
Acetone	11000	26000	86000	210000
Carbon Disulfide	11000	34000	1700 J /J	5400 J
trans-1,2-Dichloroethene	11000	43000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	32000	77000	230000
Bromodichloromethane	11000	73000	Not Detected	Not Detected
4-Methyl-2-pentanone	11000	45000	27000	110000
2-Hexanone	11000	45000	Not Detected	Not Detected
Dibromochloromethane	11000	93000	Not Detected	Not Detected
Bromoform	11000	110000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	102	70-130

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY15

ID#: 0305317A-02A

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

[redacted]

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY15

ID#: 0305317B-01A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	0.98 J
1,4-Dichlorobenzene	1.0	2.7
1,2-Dichlorobenzene	1.0	23
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	8.4
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	21
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	0.60 J
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	2.4
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY15

ID#: 0305317B-01A

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

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	40 Q	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	86	50-150
2-Fluorobiphenyl	87	60-120
2,4,6-Tribromophenol	84	50-150
Terphenyl-d14	89	60-120

LH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY15

ID#: 0305317B-02A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	5.2
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	2.0
1,4-Dichlorobenzene	1.0	6.4
1,2-Dichlorobenzene	1.0	56
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	3.1 J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	21
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.86 J
Naphthalene	1.0	55
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.3
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.9
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

UH 6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY15

ID#: 0305317B-02A

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

[redacted]

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	25 Q	50-150
Phenol-d5	92	50-150
Nitrobenzene-d5	86	50-150
2-Fluorobiphenyl	85	60-120
2,4,6-Tribromophenol	79	50-150
Terphenyl-d14	90	60-120

LH 6/24/

May 27, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY27

ID#: 0305519A-01A

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

[redacted]

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1500	3100	Not Detected	Not Detected
Vinyl Chloride	1500	3800	960 J J	2500 J
Bromomethane	1500	5800	Not Detected	Not Detected
Chloroethane	1500	3900	Not Detected	Not Detected
1,1-Dichloroethene	1500	5900	9300	37000
Methylene Chloride	1500	5200	84000	300000
1,1-Dichloroethane	1500	6000	13000	55000
cis-1,2-Dichloroethene	1500	5900	48000	190000
Chloroform	1500	7200	5700	28000
1,1,1-Trichloroethane	1500	8100	110000	620000
Carbon Tetrachloride	1500	9300	Not Detected	Not Detected
Benzene	1500	4700	91000	300000
1,2-Dichloroethane	1500	6000	Not Detected	Not Detected
Trichloroethene	1500	8000	72000	390000
1,2-Dichloropropane	1500	6800	Not Detected	Not Detected
cis-1,3-Dichloropropene	1500	6700	Not Detected	Not Detected
Toluene	1500	5600	530000	2000000
trans-1,3-Dichloropropene	1500	6700	Not Detected	Not Detected
1,1,2-Trichloroethane	1500	8100	Not Detected	Not Detected
Tetrachloroethene	1500	10000	93000	640000
Chlorobenzene	1500	6800	Not Detected	Not Detected
Ethyl Benzene	1500	6400	62000	280000
m,p-Xylene	1500	6400	280000	1200000
o-Xylene	1500	6400	90000	400000
Styrene	1500	6300	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1500	10000	Not Detected	Not Detected
Acetone	5800	14000	73000	180000
Carbon Disulfide	5800	18000	Not Detected	Not Detected
trans-1,2-Dichloroethene	5800	24000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5800	18000	68000	200000
Bromodichloromethane	5800	40000	Not Detected	Not Detected
4-Methyl-2-pentanone	5800	24000	26000	110000
2-Hexanone	5800	24000	Not Detected	Not Detected
Dibromochloromethane	5800	50000	Not Detected	Not Detected
Bromoform	5800	61000	Not Detected / R	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130

LH 1/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY27

ID#: 0305519A-01A

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

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	91	70-130

LH
6/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY27

ID#: 0305519A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1600	3300	Not Detected	Not Detected
Vinyl Chloride	1600	4100	1000 J	2600 J
Bromomethane	1600	6200	Not Detected	Not Detected
Chloroethane	1600	4200	Not Detected	Not Detected
1,1-Dichloroethene	1600	6400	10000	40000
Methylene Chloride	1600	5600	84000	300000
1,1-Dichloroethane	1600	6500	14000	56000
cis-1,2-Dichloroethene	1600	6400	49000	200000
Chloroform	1600	7800	5300	26000
1,1,1-Trichloroethane	1600	8800	110000	600000
Carbon Tetrachloride	1600	10000	Not Detected	Not Detected
Benzene	1600	5100	91000	300000
1,2-Dichloroethane	1600	6500	Not Detected	Not Detected
Trichloroethene	1600	8600	71000	390000
1,2-Dichloropropane	1600	7400	Not Detected	Not Detected
cis-1,3-Dichloropropene	1600	7300	Not Detected	Not Detected
Toluene	1600	6000	520000	2000000
trans-1,3-Dichloropropene	1600	7300	Not Detected	Not Detected
1,1,2-Trichloroethane	1600	8800	Not Detected	Not Detected
Tetrachloroethene	1600	11000	94000	640000
Chlorobenzene	1600	7400	Not Detected	Not Detected
Ethyl Benzene	1600	7000	62000	280000
m,p-Xylene	1600	7000	280000	1200000
o-Xylene	1600	7000	87000	380000
Styrene	1600	6800	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1600	11000	Not Detected	Not Detected
Acetone	6300	15000	73000	180000
Carbon Disulfide	6300	20000	Not Detected	Not Detected
trans-1,2-Dichloroethene	6300	25000	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6300	19000	67000	200000
Bromodichloromethane	6300	43000	Not Detected	Not Detected
4-Methyl-2-pentanone	6300	26000	26000	110000
2-Hexanone	6300	26000	Not Detected	Not Detected
Dibromochloromethane	6300	55000	Not Detected	Not Detected
Bromoform	6300	66000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY27

ID#: 0305519A-02A

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

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY27

ID#: 0305519B-01A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	4.3 J /J
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	2.2
1,4-Dichlorobenzene	1.0	7.2
1,2-Dichlorobenzene	1.0	56
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	2.8 J /J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	19
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.79 J /J
Naphthalene	1.0	51
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.4
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	6.4
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

LH 1/24/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 MAY27

ID#: 0305519B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	1.5 J 15
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	26 Q	50-150
Phenol-d5	84	50-150
Nitrobenzene-d5	86	50-150
2-Fluorobiphenyl	84	60-120
2,4,6-Tribromophenol	76	50-150
Terphenyl-d14	85	60-120

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY27

ID#: 0305519B-02A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	5.2
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	3.2
1,4-Dichlorobenzene	1.0	9.6
1,2-Dichlorobenzene	1.0	73
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	2.9 J
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	23
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.86 J
Naphthalene	1.0	59
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.5
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	7.2
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 MAY27

ID#: 0305519B-02A

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

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	28 Q	50-150
Phenol-d5	88	50-150
Nitrobenzene-d5	97	50-150
2-Fluorobiphenyl	85	60-120
2,4,6-Tribromophenol	75	50-150
Terphenyl-d14	89	60-120

UH 1/24/03

June 13, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN1 JUN13

ID#: 0306281A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1400	2800	Not Detected U	Not Detected
Vinyl Chloride	1400	3500	Not Detected U	Not Detected
Bromomethane	1400	5400	Not Detected U	Not Detected
Chloroethane	1400	3600	Not Detected U	Not Detected
1,1-Dichloroethene	1400	5500	7100	29000
Methylene Chloride	1400	4800	43000	150000
1,1-Dichloroethane	1400	5600	6700	27000
cis-1,2-Dichloroethene	1400	5500	29000	120000
Chloroform	1400	6700	3100	15000
1,1,1-Trichloroethane	1400	7500	52000	280000
Carbon Tetrachloride	1400	8700	Not Detected U	Not Detected
Benzene	1400	4400	53000	170000
1,2-Dichloroethane	1400	5600	1700	7100
Trichloroethene	1400	7400	38000	210000
1,2-Dichloropropane	1400	6400	800 J J	3800 J
cis-1,3-Dichloropropene	1400	6300	Not Detected U	Not Detected
Toluene	1400	5200	330000	1300000
trans-1,3-Dichloropropene	1400	6300	Not Detected U	Not Detected
1,1,2-Trichloroethane	1400	7500	Not Detected U	Not Detected
Tetrachloroethene	1400	9400	61000	420000
Chlorobenzene	1400	6400	Not Detected U	Not Detected
Ethyl Benzene	1400	6000	42000	190000
m,p-Xylene	1400	6000	190000	830000
o-Xylene	1400	6000	57000	250000
Styrene	1400	5900	Not Detected U	Not Detected
1,1,2,2-Tetrachloroethane	1400	9500	Not Detected U	Not Detected
Acetone	5400	13000	37000	89000
Carbon Disulfide	5400	17000	Not Detected U	Not Detected
trans-1,2-Dichloroethene	5400	22000	Not Detected U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5400	16000	37000	110000
Bromodichloromethane	5400	37000	Not Detected U	Not Detected
4-Methyl-2-pentanone	5400	23000	16000	66000
2-Hexanone	5400	23000	Not Detected U	Not Detected
Dibromochloromethane	5400	47000	Not Detected U	Not Detected
Bromoform	5400	57000	Not Detected U	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CS 07/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN1 JUN13

ID#: 0306281A-01A

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

CS
9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN2 JUN13

ID#: 0306281A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	1.4	2.8	Not Detected /U	Not Detected
Vinyl Chloride	1.4	3.5	Not Detected /U	Not Detected
Bromomethane	1.4	5.4	Not Detected /U	Not Detected
Chloroethane	1.4	3.6	Not Detected /U	Not Detected
1,1-Dichloroethene	1.4	5.5	2.2	8.8
Methylene Chloride	1.4	4.8	20	71
1,1-Dichloroethane	1.4	5.6	2.1	8.5
cis-1,2-Dichloroethene	1.4	5.5	15	60
Chloroform	1.4	6.7	1.3 J /J	6.7 J
1,1,1-Trichloroethane	1.4	7.5	16	90
Carbon Tetrachloride	1.4	8.7	Not Detected /U	Not Detected
Benzene	1.4	4.4	26	85
1,2-Dichloroethane	1.4	5.6	1.1 J /J	4.4 J
Trichloroethene	1.4	7.4	24	130
1,2-Dichloropropane	1.4	6.4	Not Detected /U	Not Detected
cis-1,3-Dichloropropene	1.4	6.3	Not Detected /U	Not Detected
Toluene	1.4	5.2	280	1100
trans-1,3-Dichloropropene	1.4	6.3	Not Detected /U	Not Detected
1,1,2-Trichloroethane	1.4	7.5	Not Detected /U	Not Detected
Tetrachloroethene	1.4	9.4	58	400
Chlorobenzene	1.4	6.4	Not Detected /U	Not Detected
Ethyl Benzene	1.4	6.0	60	260
m,p-Xylene	1.4	6.0	300	1300
o-Xylene	1.4	6.0	99	440
Styrene	1.4	5.9	Not Detected /U	Not Detected
1,1,2,2-Tetrachloroethane	1.4	9.5	Not Detected /U	Not Detected
Acetone	5.4	13	28	67
Carbon Disulfide	5.4	17	Not Detected /U	Not Detected
trans-1,2-Dichloroethene	5.4	22	Not Detected /U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	16	33	99
Bromodichloromethane	5.4	37	Not Detected /U	Not Detected
4-Methyl-2-pentanone	5.4	23	12	51
2-Hexanone	5.4	23	Not Detected /U	Not Detected
Dibromochloromethane	5.4	47	Not Detected /U	Not Detected
Bromoform	5.4	57	Not Detected /U	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CS 9/12/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN2 JUN13

ID#: 0306281A-02A

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 EFF1 JUN13

ID#: 0306281A-03A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Chloromethane	0.70	1.4	1.0	2.2
Vinyl Chloride	0.70	1.8	0.53 J /J	1.4 J
Bromomethane	0.70	2.7	Not Detected /U	Not Detected
Chloroethane	0.70	1.9	Not Detected /U	Not Detected
1,1-Dichloroethene	0.70	2.8	4.0	16
Methylene Chloride	0.70	2.4	13	45
1,1-Dichloroethane	0.70	2.8	1.5	6.3
cis-1,2-Dichloroethene	0.70	2.8	12	50
Chloroform	0.70	3.4	1.4	7.2
1,1,1-Trichloroethane	0.70	3.8	12	66
Carbon Tetrachloride	0.70	4.4	0.42 J /J	2.6 J
Benzene	0.70	2.2	15	49
1,2-Dichloroethane	0.70	2.8	0.46 J /J	1.9 J
Trichloroethene	0.70	3.8	10	58
1,2-Dichloropropane	0.70	3.3	Not Detected /U	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected /U	Not Detected
Toluene	0.70	2.7	78	300
trans-1,3-Dichloropropene	0.70	3.2	Not Detected /U	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected /U	Not Detected
Tetrachloroethene	0.70	4.8	21	140
Chlorobenzene	0.70	3.2	Not Detected /U	Not Detected
Ethyl Benzene	0.70	3.1	10	44
m,p-Xylene	0.70	3.1	47	210
o-Xylene	0.70	3.1	14	60
Styrene	0.70	3.0	2.6	11
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected /U	Not Detected
Acetone	2.8	6.7	59	140
Carbon Disulfide	2.8	8.8	Not Detected /U	Not Detected
trans-1,2-Dichloroethene	2.8	11	Not Detected /U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	13	40
Bromodichloromethane	2.8	19	Not Detected /U	Not Detected
4-Methyl-2-pentanone	2.8	12	3.4	14
2-Hexanone	2.8	12	Not Detected /U	Not Detected
Dibromochloromethane	2.8	24	Not Detected /U	Not Detected
Bromoform	2.8	29	Not Detected /U	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CG 9/17/13

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 EFF1 JUN13

ID#: 0306281A-03A

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

CG
9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN1 JUN13

ID#: 0306281B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected /U
bis(2-Chloroethyl) Ether	1.0	Not Detected /U
2-Chlorophenol	5.0	Not Detected /U
1,3-Dichlorobenzene	1.0	1.0
1,4-Dichlorobenzene	1.0	2.2
1,2-Dichlorobenzene	1.0	19
2-Methylphenol (o-Cresol)	5.0	Not Detected /U
N-Nitroso-di-n-propylamine	1.0	Not Detected /U
4-Methylphenol	5.0	Not Detected /U
Hexachloroethane	1.0	Not Detected /U
Nitrobenzene	1.0	Not Detected /U
Isophorone	1.0	5.3
2-Nitrophenol	5.0	Not Detected /U
2,4-Dimethylphenol	5.0	Not Detected /U
bis(2-Chloroethoxy) Methane	1.0	Not Detected /U
2,4-Dichlorophenol	5.0	Not Detected /U
1,2,4-Trichlorobenzene	1.0	Not Detected /U
Naphthalene	1.0	11
4-Chloroaniline	10	Not Detected /U
Hexachlorobutadiene	1.0	Not Detected /U
4-Chloro-3-methylphenol	5.0	Not Detected /U
2-Methylnaphthalene	1.0	1.2
Hexachlorocyclopentadiene	20	Not Detected /U
2,4,6-Trichlorophenol	5.0	Not Detected /U
2,4,5-Trichlorophenol	5.0	Not Detected /U
2-Chloronaphthalene	1.0	Not Detected /U
2-Nitroaniline	10	Not Detected /U
Dimethylphthalate	5.0	Not Detected /U
Acenaphthylene	1.0	Not Detected /U
2,6-Dinitrotoluene	5.0	Not Detected /U
3-Nitroaniline	10	Not Detected /U
Acenaphthene	1.0	Not Detected /U
2,4-Dinitrophenol	20	Not Detected /U
4-Nitrophenol	20	Not Detected /U
2,4-Dinitrotoluene	5.0	Not Detected /U
Dibenzofuran	1.0	Not Detected /U
Diethylphthalate	5.0	Not Detected /U
Fluorene	1.0	Not Detected /U
4-Chlorophenyl-phenyl Ether	1.0	Not Detected /U
4-Nitroaniline	10	Not Detected /U
4,6-Dinitro-2-methylphenol	10	Not Detected /U

CG 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN1 JUN13

ID#: 0306281B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected /U
4-Bromophenyl-phenyl Ether	1.0	Not Detected /U
Hexachlorobenzene	1.0	Not Detected /U
Pentachlorophenol	20	Not Detected /U
Phenanthrene	1.0	Not Detected /U
Anthracene	1.0	Not Detected /U
di-n-Butylphthalate	5.0	0.56 J /J
Fluoranthene	1.0	Not Detected /U
Pyrene	1.0	Not Detected /U
Butylbenzylphthalate	5.0	Not Detected /U
3,3'-Dichlorobenzidine	20	Not Detected /U
Chrysene	1.0	Not Detected /U
Benzo(a)anthracene	1.0	Not Detected /U
bis(2-Ethylhexyl)phthalate	5.0	0.91 J /J
Di-n-Octylphthalate	5.0	Not Detected /U
Benzo(b)fluoranthene	1.0	Not Detected /U
Benzo(k)fluoranthene	1.0	Not Detected /U
Benzo(a)pyrene	1.0	Not Detected /U
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected /U
Dibenz(a,h)anthracene	1.0	Not Detected /U
Benzo(g,h,i)perylene	1.0	Not Detected /U

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	55	50-150
Phenol-d5	77	50-150
Nitrobenzene-d5	76	50-150
2-Fluorobiphenyl	83	60-120
2,4,6-Tribromophenol	96	50-150
Terphenyl-d14	96	60-120

CS 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN2 JUN13

ID#: 0306281B-02A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	3.2
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	2.6
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	8.5
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	1.7
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

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AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 IN2 JUN13

ID#: 0306281B-02A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.70 J
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	50-150
Phenol-d5	78	50-150
Nitrobenzene-d5	74	50-150
2-Fluorobiphenyl	81	60-120
2,4,6-Tribromophenol	102	50-150
Terphenyl-d14	95	60-120

AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 EFF1 JUN13

ID#: 0306281B-03A

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

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

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AIR TOXICS LTD.

SAMPLE NAME: ACS THERM OX2 EFF1 JUN13

ID#: 0306281B-03A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected U
4-Bromophenyl-phenyl Ether	1.0	Not Detected U
Hexachlorobenzene	1.0	Not Detected U
Pentachlorophenol	20	Not Detected U
Phenanthrene	1.0	Not Detected U
Anthracene	1.0	Not Detected U
di-n-Butylphthalate	5.0	0.56 J J
Fluoranthene	1.0	Not Detected U
Pyrene	1.0	Not Detected U
Butylbenzylphthalate	5.0	Not Detected U
3,3'-Dichlorobenzidine	20	Not Detected U
Chrysene	1.0	Not Detected U
Benzo(a)anthracene	1.0	Not Detected U
bis(2-Ethylhexyl)phthalate	5.0	Not Detected U
Di-n-Octylphthalate	5.0	Not Detected U
Benzo(b)fluoranthene	1.0	Not Detected U
Benzo(k)fluoranthene	1.0	Not Detected U
Benzo(a)pyrene	1.0	Not Detected U
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected U
Dibenz(a,h)anthracene	1.0	Not Detected U
Benzo(g,h,i)perylene	1.0	Not Detected U

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	50-150
Phenol-d5	79	50-150
Nitrobenzene-d5	81	50-150
2-Fluorobiphenyl	84	60-120
2,4,6-Tribromophenol	104	50-150
Terphenyl-d14	96	60-120

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June 26, 2003 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 JUN26

ID#: 0306551A-02A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	1400	3700	510 J / J	1300 J
Bromomethane	1400	5700	Not Detected / U	Not Detected
Chloroethane	1400	3900	Not Detected / U	Not Detected
1,1-Dichloroethene	1400	5800	860 J / J	3500 J
Methylene Chloride	1400	5100	59000	210000
1,1-Dichloroethane	1400	5900	8800	36000
cis-1,2-Dichloroethene	1400	5800	24000	95000
Chloroform	1400	7100	3300	16000
1,1,1-Trichloroethane	1400	8000	65000	360000
Carbon Tetrachloride	1400	9200	Not Detected / U	Not Detected
Benzene	1400	4700	45000	140000
1,2-Dichloroethane	1400	5900	2000	8200
Trichloroethene	1400	7900	41000	220000
1,2-Dichloropropane	1400	6800	1000 J / J	4800 J
cis-1,3-Dichloropropene	1400	6600	Not Detected / U	Not Detected
Toluene	1400	5500	340000	1300000
trans-1,3-Dichloropropene	1400	6600	Not Detected / U	Not Detected
1,1,2-Trichloroethane	1400	8000	Not Detected / U	Not Detected
Tetrachloroethene	1400	9900	45000	310000
Chlorobenzene	1400	6700	Not Detected / U	Not Detected
Ethyl Benzene	1400	6400	45000	200000
m,p-Xylene	1400	6400	200000	890000
o-Xylene	1400	6400	57000	250000
Styrene	1400	6200	Not Detected / U	Not Detected
1,1,2,2-Tetrachloroethane	1400	10000	Not Detected / U	Not Detected
Bromodichloromethane	1400	9800	Not Detected / U	Not Detected
Dibromochloromethane	1400	12000	Not Detected / U	Not Detected
Chloromethane	5800	12000	Not Detected / U	Not Detected
Acetone	5800	14000	63000	150000
Carbon Disulfide	5800	18000	3800 J / J	12000 J
trans-1,2-Dichloroethene	5800	23000	Not Detected / U	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5800	17000	55000	170000
4-Methyl-2-pentanone	5800	24000	22000	94000
2-Hexanone	5800	24000	2100 J / J	8900 J
Bromoform	5800	60000	Not Detected / U	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 JUN26

ID#: 0306551A-02A

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 JUN26

ID#: 0306551A-03A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	1500	3800	720 J	1800 J
Bromomethane	1500	5800	Not Detected	Not Detected
Chloroethane	1500	3900	Not Detected	Not Detected
1,1-Dichloroethene	1500	5900	970 J	3900 J
Methylene Chloride	1500	5200	69000	240000
1,1-Dichloroethane	1500	6000	10000	42000
cis-1,2-Dichloroethene	1500	5900	27000	110000
Chloroform	1500	7200	3900	20000
1,1,1-Trichloroethane	1500	8100	76000	420000
Carbon Tetrachloride	1500	9300	Not Detected	Not Detected
Benzene	1500	4700	51000	160000
1,2-Dichloroethane	1500	6000	2100	8700
Trichloroethene	1500	8000	46000	250000
1,2-Dichloropropane	1500	6800	920 J	4300 J
cis-1,3-Dichloropropene	1500	6700	Not Detected	Not Detected
Toluene	1500	5600	380000	1400000
trans-1,3-Dichloropropene	1500	6700	Not Detected	Not Detected
1,1,2-Trichloroethane	1500	8100	Not Detected	Not Detected
Tetrachloroethene	1500	10000	45000	310000
Chlorobenzene	1500	6800	Not Detected	Not Detected
Ethyl Benzene	1500	6400	42000	180000
m,p-Xylene	1500	6400	170000	760000
o-Xylene	1500	6400	50000	220000
Styrene	1500	6300	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	1500	10000	Not Detected	Not Detected
Bromodichloromethane	1500	9900	Not Detected	Not Detected
Dibromochloromethane	1500	13000	Not Detected	Not Detected
Chloromethane	5800	12000	Not Detected	Not Detected
Acetone	5800	14000	72000	170000
Carbon Disulfide	5800	18000	5600 J	18000 J
trans-1,2-Dichloroethene	5800	24000	480 J	1900 J
2-Butanone (Methyl Ethyl Ketone)	5800	18000	65000	200000
4-Methyl-2-pentanone	5800	24000	25000	100000
2-Hexanone	5800	24000	1900 J	8000 J
Bromoform	5800	61000	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 JUN26

ID#: 0306551A-03A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	94	70-130

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EF1 JUN26

ID#: 0306551A-01A

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

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Vinyl Chloride	2.8	7.3	20	52
Bromomethane	2.8	11	1.1 J /J	4.4 J
Chloroethane	2.8	7.6	2.7 J /J	7.2 J
1,1-Dichloroethene	2.8	11	49	200
Methylene Chloride	2.8	10	250	890
1,1-Dichloroethane	2.8	12	33	130
cis-1,2-Dichloroethene	2.8	11	91	370
Chloroform	2.8	14	14	67
1,1,1-Trichloroethane	2.8	16	250	1400
Carbon Tetrachloride	2.8	18	Not Detected /U	Not Detected
Benzene	2.8	9.2	290	950
1,2-Dichloroethane	2.8	12	7.7	32
Trichloroethene	2.8	15	180	1000
1,2-Dichloropropane	2.8	13	Not Detected /U	Not Detected
cis-1,3-Dichloropropene	2.8	13	Not Detected /U	Not Detected
Toluene	2.8	11	920	3500
trans-1,3-Dichloropropene	2.8	13	Not Detected /U	Not Detected
1,1,2-Trichloroethane	2.8	16	1.6 J /J	8.9 J
Tetrachloroethene	2.8	19	220	1500
Chlorobenzene	2.8	13	2.8	13
Ethyl Benzene	2.8	12	80	350
m,p-Xylene	2.8	12	300	1300
o-Xylene	2.8	12	86	380
Styrene	2.8	12	34	150
1,1,2,2-Tetrachloroethane	2.8	20	Not Detected /U	Not Detected
Bromodichloromethane	2.8	19	Not Detected /U	Not Detected
Dibromochloromethane	2.8	24	Not Detected /U	Not Detected
Chloromethane	11	24	15	31
Acetone	11	27	300	730
Carbon Disulfide	11	36	0.75 J /J	2.4 J
trans-1,2-Dichloroethene	11	45	21	86
2-Butanone (Methyl Ethyl Ketone)	11	34	170	500
4-Methyl-2-pentanone	11	47	37	150
2-Hexanone	11	47	2.9 J /J	12 J
Bromoform	11	120	Not Detected /U	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EF1 JUN26

ID#: 0306551A-01A

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

[redacted]

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	91	70-130

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 JUN26

ID#: 0306551B-02A

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

[redacted]

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	4.4 J
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	1.0
1,4-Dichlorobenzene	1.0	4.2
1,2-Dichlorobenzene	1.0	40
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	20
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.78 J
Naphthalene	1.0	51
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	1.2
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	5.8
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.48 J
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN1 JUN26

ID#: 0306551B-02A

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

[redacted]

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	40 Q	50-150
Phenol-d5	81	50-150
Nitrobenzene-d5	94	50-150
2-Fluorobiphenyl	90	60-120
2,4,6-Tribromophenol	90	50-150
Terphenyl-d14	93	60-120

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 JUN26

ID#: 0306551B-03A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	5.4
bis(2-Chloroethyl) Ether	1.0	Not Detected /U
2-Chlorophenol	5.0	Not Detected /U
1,3-Dichlorobenzene	1.0	1.2
1,4-Dichlorobenzene	1.0	4.6
1,2-Dichlorobenzene	1.0	41
2-Methylphenol (o-Cresol)	5.0	Not Detected /U
N-Nitroso-di-n-propylamine	1.0	Not Detected /U
4-Methylphenol	5.0	Not Detected /U
Hexachloroethane	1.0	Not Detected /U
Nitrobenzene	1.0	Not Detected /U
Isophorone	1.0	21
2-Nitrophenol	5.0	Not Detected /U
2,4-Dimethylphenol	5.0	Not Detected /U
bis(2-Chloroethoxy) Methane	1.0	Not Detected /U
2,4-Dichlorophenol	5.0	Not Detected /U
1,2,4-Trichlorobenzene	1.0	0.85 J /J
Naphthalene	1.0	57
4-Chloroaniline	10	Not Detected /U
Hexachlorobutadiene	1.0	1.1
4-Chloro-3-methylphenol	5.0	Not Detected /U
2-Methylnaphthalene	1.0	6.8
Hexachlorocyclopentadiene	20	Not Detected /U
2,4,6-Trichlorophenol	5.0	Not Detected /U
2,4,5-Trichlorophenol	5.0	Not Detected /U
2-Chloronaphthalene	1.0	Not Detected /U
2-Nitroaniline	10	Not Detected /U
Dimethylphthalate	5.0	Not Detected /U
Acenaphthylene	1.0	Not Detected /U
2,6-Dinitrotoluene	5.0	Not Detected /U
3-Nitroaniline	10	Not Detected /U
Acenaphthene	1.0	Not Detected /U
2,4-Dinitrophenol	20	Not Detected /U
4-Nitrophenol	20	Not Detected /U
2,4-Dinitrotoluene	5.0	Not Detected /U
Dibenzofuran	1.0	Not Detected /U
Diethylphthalate	5.0	0.41 J /J
Fluorene	1.0	Not Detected /U
4-Chlorophenyl-phenyl Ether	1.0	Not Detected /U
4-Nitroaniline	10	Not Detected /U
4,6-Dinitro-2-methylphenol	10	Not Detected /U

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 IN2 JUN26

ID#: 0306551B-03A

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

[redacted]

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

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	36 Q	50-150
Phenol-d5	78	50-150
Nitrobenzene-d5	97	50-150
2-Fluorobiphenyl	86	60-120
2,4,6-Tribromophenol	88	50-150
Terphenyl-d14	93	60-120

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AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EF1 JUN26

ID#: 0306551B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.58 J
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CS 9/17/03

AIR TOXICS LTD.

SAMPLE NAME: ACS ME205 EF1 JUN26

ID#: 0306551B-01A

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

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected U
4-Bromophenyl-phenyl Ether	1.0	Not Detected U
Hexachlorobenzene	1.0	Not Detected U
Pentachlorophenol	20	Not Detected U
Phenanthrene	1.0	Not Detected U
Anthracene	1.0	Not Detected U
di-n-Butylphthalate	5.0	Not Detected U
Fluoranthene	1.0	Not Detected U
Pyrene	1.0	Not Detected U
Butylbenzylphthalate	5.0	Not Detected U
3,3'-Dichlorobenzidine	20	Not Detected U
Chrysene	1.0	Not Detected U
Benzo(a)anthracene	1.0	Not Detected U
bis(2-Ethylhexyl)phthalate	5.0	3.5 J B
Di-n-Octylphthalate	5.0	Not Detected U
Benzo(b)fluoranthene	1.0	Not Detected U
Benzo(k)fluoranthene	1.0	Not Detected U
Benzo(a)pyrene	1.0	Not Detected U
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected U
Dibenz(a,h)anthracene	1.0	Not Detected U
Benzo(g,h,i)perylene	1.0	Not Detected U

J = Estimated value.

Container Type: XAD Tube: VOST

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	50-150
Phenol-d5	58	50-150
Nitrobenzene-d5	62	50-150
2-Fluorobiphenyl	66	60-120
2,4,6-Tribromophenol	90	50-150
Terphenyl-d14	86	60-120