



**2003 Annual
Performance
Monitoring Report
Essex/Hope Site
Jamestown, New York
*June 2004***

*Prepared for:
Essex Specialty Products, Inc.
Auburn Hills, Michigan*

URS Project No. 41567320

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Jamestown, New York**

Prepared for:
Essex Specialty Products, Inc.
Auburn Hills, Michigan

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URS Project No. 41567320

June 2004

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1.0 Introduction

On behalf of Essex Specialty Products, Inc. (ESP), URS has prepared this Annual Performance Monitoring Report for the Essex/Hope Site in Jamestown, New York (NO.9-07-015) as required by the Performance Monitoring Plan (PMP) prepared by Radian International in June 1997, and revised by URS Corp. in October, 2003. It is noted that the revisions to the performance monitoring program take effect in year 2004 and are not included in the 2003 operations. This report summarizes the operations and performance monitoring of the site remedial systems for the calendar year of 2003. A site location map is provided as Figure 1.

Section 2.0 of the report summarizes groundwater flow conditions under pumping influence, Section 3.0 discusses groundwater quality, and Section 4.0 details soil vapor extraction (SVE)/air sparging system performance.

1.1 Remedial Systems Overview

Three separate areas are the focus of remedial efforts: the North Parking Lot (NPL) Area, the former Underground Storage Tanks (UST) Area, and the former Aboveground Storage Tank/Underground Storage Tank (AST/UST) Area. These areas and the site monitoring points are illustrated on Figure 2.

The remedial systems at the Essex/Hope Site were designed and constructed to address impacted groundwater and soils contained in the three identified areas of the site (NPL, AST/UST, and UST Areas). Remediation of groundwater and soils at the Essex/Hope Site is performed by a combination of soil vapor extraction, air sparging, and a groundwater extraction and treatment systems. The original remedial action design and implementation was based upon the March 1994 Record of Decision (ROD) issued by the New York State Department of Environmental Conservation (NYSDEC) and included:

- A groundwater remediation system consisting of an extraction well network of five (5) shallow and two (2) deep recovery wells and activated carbon pre-treatment with onsite discharge to the local POTW;
- Soil remediation in the AST/UST and UST Areas by soil vapor extraction (SVE) for volatile organic constituents occurring above the shallow water table.
- Soil excavation in the NPL Area, conducted in September and October of 1996, to remove impacted soils in the former sump and surrounding areas.
- Air sparging in the shallow water-bearing zone of the NPL, UST and AST/UST Areas to supplement the treatment of impacted groundwater via enhanced biodegradation and volatilization of organic constituents. A soil vapor extraction system was added to the NPL Area to collect volatile organic constituents (VOCs) volatilized from the shallow groundwater in this area.
- The remedial areas were capped with either asphalt or concrete to enhance surface water runoff and minimize infiltration.

- A network of monitoring wells across the site (as designated in the Performance Monitoring Plan) is used to measure the effectiveness of the groundwater remedial activities.

Voluntary supplemental remedial activities were initiated in 2000, with the approval of the NYSDEC, to refine the understanding of the extent of site related subsurface constituents and to evaluate potential remedial alternatives to enhance remedial effectiveness at the site. Evaluation of those studies continued during 2001 and 2002, and measures to remove residual VOCs in the UST Area were implemented. The results of the additional studies and UST Area work are reported under separate cover. A summary of the additional activities performed at the Site after the initial remedial actions is as follows:

- A pilot scale zero-valent iron permeable reactive barrier (PRB) was injected around recovery well RW-2D and within the lower semi-confined water-bearing zone beneath Building 5 in July 2000. The pilot PRB is designed to evaluate the effectiveness of this technology to reduce and control the migration of dissolved VOC constituents from the site. As part of this evaluation, additional groundwater piezometers were installed in the upper unconfined water-bearing zone and lower semi-confined water-bearing zone for performance monitoring of the pilot PRB. Collection of pilot test data was completed in July 2001, and further evaluation based upon site performance monitoring data was completed in December 2002. Data concerning this pilot test was submitted to the NYSDEC as the Interim Results, PRB Pilot Results for First Four Sample Rounds (URS, February 2001). A final pilot test report detailing results through December 2002 was submitted to NYSDEC in July, 2003.
- The former underground storage tanks (USTs) in the UST Area were uncovered in August 2000 and evaluated as a potential ongoing source of VOCs in this area. Additional test borings and groundwater piezometers were installed within the upper shallow semi-confined water-bearing zones in this area to evaluate groundwater and soil chemical conditions, and to refine groundwater flow direction and constituent migration. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- As part of the UST Area investigation, the area east of Building 5 was evaluated at the request of the NYSDEC to determine the source of vinyl chloride within the lower semi-confined water bearing zone at Monitoring Well MW-19D, located on the Site's eastern property line. A network of test borings and deep piezometers were installed within the UST Area and on the offsite property to the east for evaluation of chemical conditions within the soil and groundwater. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- The former USTs (Tanks 1 through 4) in the UST Area were uncovered during 2001 and cleaned-out to remove residual liquids from the tanks. Openings were cut in each tank and the fluid contents removed, and each tank was rinsed with potable water. Following rinsing, the tanks were treated using the Biox[®] Process to remove residual organic constituents in the tanks by chemical oxidation and biodegradation. Results of the tank cleaning were submitted to the NYSDEC in the Tank Closure Work Plan (URS, September 2001).
- Based upon the results of the Biox solution treatment of the USTs, where VOCs were not reduced below the "clean closure" standard of 5 ug/L within Tanks T-1, T-3 and T-4 as required by the NYSDEC, a UST removal program was initiated by Essex Specialty

Products. All five (5) of the former USTs in the UST Area, and over 1000 tons of soil were removed between the period of November 2002 and January 2003. Results of this activity have been submitted to the NYSDEC in the UST Removal Interim Report (URS, February 2003).

- A supplemental investigation was completed in October 2003 to further define conditions in the UST Area and the vinyl chloride groundwater plume on the east side of the former Plant No. 5 building. This investigation was completed to provide data to address potential additional measures for the site cleanup. These potential measures focus on *insitu* methods especially those that are able to treat both the UST Area contaminants (toluene, ethylbenzene, xylenes) and the vinyl chloride plume. Results of the investigation are reported under separate cover. The new monitoring wells installed as part of these investigations, MW's: 21D, 22D, 23S, 23D and 24S, are shown on Figure 2. Some of these new wells, and possibly additional wells, may be added to the Performance Monitoring Plan (PMP). These possible revisions to the PMP will be proposed after evaluation of the recent investigation results and consultation with NYDEC.

Modifications to the original remedial systems configuration since startup in 1997 have included the following:

- Groundwater extraction from Recovery Well RW-1D, screened across the deep water-bearing zone in the NPL Area, was discontinued in June 1999 with the approval of the NYSDEC. As reported in the 1999 Annual Performance Monitoring Report (Radian International, April 1999), a pumping evaluation completed in the first half of 1999 revealed that vertical leakage was occurring from the shallow water-bearing zone to the deep water-bearing zone due to pumping from the deep zone. Based upon this information, and the fact that the majority of the groundwater constituents are recovered from RW-2D, NYSDEC recommended that RW-1D be shut down as documented in the June 17, 1999 correspondence from the NYSDEC to Radian International.
- The air sparging system in the NPL Area was shut down in July 2000, with the approval of the NYSDEC, to prevent the oxidation of the newly installed Pilot Permeable Reactive Barrier (PRB) and zero-valent iron injections in that area. The soil vapor extraction system has continued to be operated in this area as needed to collect potential gases produced by subsurface reactions associated with the Pilot PRB and zero-valent iron injections in that area.
- Air sparging in the UST Area was discontinued in October 2000 after mechanical failure of the air sparge pump. Since the combined soil vapor extraction/air sparging system had reached its practical remedial effectiveness, Essex Specialty Products initiated activities to evaluate conditions in this area in 2000 and implement supplemental remedial activities to replace the original system, with the approval of the NYSDEC. These supplemental remedial activities include the *insitu* cleaning of the former USTs completed in December 2001 and February 2003, and the UST removals completed between November 2002 and January 2003.
- The soil vapor extraction system and groundwater recovery system (Recovery Wells RW-4S and RW-5S) in the UST Area were shut down in November 2002 for the UST removal activities. Excavation work resulted in complete removal of the electrical system for the UST Area, Recovery Well RW-4S, and underground piping to the soil vapor extraction/air sparging wells and existing Recovery Well RW-5S. These

systems are currently shut down. There are no plans at this time to redesign or reconstruct the UST Area remediation system.

1.2 Performance Criteria

The performance criteria to evaluate remediation effectiveness are the Remedial Action Objectives (RAOs) included as Appendix A in the March 1994 Record of Decision (ROD) for the site. Table 1 summarizes the RAOs for the site.

Performance monitoring completed during the 2003 calendar year consisted of monthly groundwater pre-treatment system influent and effluent analysis, quarterly recovery well groundwater analysis, quarterly SVE system airstream analysis and annual groundwater sampling of the monitoring wells selected as performance monitoring points. No soil sampling was completed in the AST or UST Areas during 2003. The site investigations conducted in November-December, 2003 provided data on shallow soils and groundwater in the UST Area which will be used to assess the extent of residual contaminants and potential supplemental remedial actions in this area.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2003 quarterly groundwater flow conditions as well as an annual evaluation of the extraction system. The annual evaluation reviews each extraction well's pumping rates, the amount of pore volume exchanged in each remedial area and groundwater flow conditions over the course of the extraction period.

Water level measurements were obtained periodically during system operation for each quarter of 2003 and are provided in Appendix A. Groundwater contour maps representative of pumping conditions during each quarter are provided as Figures 3 through 10 for the shallow and deep water-bearing zones.

The groundwater extraction system was operated continuously throughout the reporting period with the exception of system shutdowns summarized as follows:

- Recovery well RW-4S was destroyed and recovery well RW-5S inoperable since the November 2002 UST removal activities;
- Recovery well RW-3S was not pumping due to a turned off switch in early March, 2003 and was later shut down for approximately one hour for cleaning of level probes in mid-March;
- Recovery well RW-2D was shut down in mid-March, 2003 for discharge line and pump cleaning ;
- All recovery wells were offline between March 18 and April 13, 2003 for repair of the equalization tank level controls;
- All recovery wells were offline between June 19 and July 12, 2003 for repair of the onsite discharge sewer line;
- All recovery wells were offline between October 26 through 30, 2003 for carbon change-out;
- All recovery wells were offline between November 7 and 13, 2003 for annual sampling;
- Recovery well RW-3S was offline on December 14, 2003 through the remainder of year for mechanical repairs.

2.1 Annual Groundwater Extraction

Groundwater pumping volumes are provided in Table 2. In 2003, nearly 1.6 million gallons of groundwater were extracted and treated by the recovery system. Approximately 981,550 gallons of groundwater were extracted from the LFSWBZ and approximately 602,340 gallons of groundwater were extracted from the shallow water-bearing zone. Groundwater extraction from each treatment area is discussed below.

2.1.1 Shallow Water Bearing Zone Extraction Summary

NPL Area

Recovery wells RW-1S and RW-2S extract groundwater from the shallow zone in the NPL Area. A combined total of approximately 586,670 gallons of groundwater was extracted from this zone during 2003. Groundwater extraction rates were variable throughout the year depending upon recharge from precipitation events, and pumping well efficiency. The highest rates occurred during the 1st and 2nd Quarters of 2003 at 175,746 and 186,011 total gallons per quarter, respectively. The lowest rates occurred during the 3rd and 4th Quarters at 109,009 and 115,905 total gallons per quarter, respectively.

During higher recovery rates of the 1st and 2nd Quarters of 2003, approximately 2.18 groundwater pore volume exchanges occurred in the 1st Quarter and approximately 2.30 pore volume exchanges occurred during the 2nd Quarter. Average steady state flow rates were 1.36 gpm during the 1st Quarter and 1.42 gpm for the 2nd Quarter.

During the 3rd and 4th quarters of 2003, under lower flow conditions, approximately 1.35 pore volume exchanges of groundwater occurred during the 3rd Quarter and approximately 1.43 pore exchanges were completed during the 4th Quarter. The quantity of water produced during these periods equates to a steady state flow rate of 0.82 gallons per minute (gpm) for the 3rd Quarter and 0.87 gpm for the 4th Quarter. Pore volume exchange is based upon a total area of 80 ft x 150 ft with an average 6-foot thick saturated zone and an estimated effective porosity of 15% (0.15).

AST/UST Area

In the AST/UST area, approximately 15,667 gallons of groundwater was extracted from Recovery Well RW-3S during 2003. Groundwater extraction rates were highest in this area during the 2nd and 3rd Quarters of 2003 at 4,845 and 5,584 gallons removed, respectively. Lower flows occurred during the 1st and 4th Quarters at 4,021 and 1,217 gallons removed respectively. Based upon a 60ft X 60 ft area with an average 6 foot saturated thickness and estimated effective porosity of 15%, the pore volume exchange is estimated at 0.65 volumes of water for 2003. The quantity of water extracted from this area equates to a steady state pumping rate of 0.03 gpm.

2.1.2 Lower Fine Sand Water-Bearing Zone Extraction Summary

A total of approximately 981,553 gallons of groundwater was extracted from the deep zone from RW-2D during 2003. Groundwater yields were relatively steady throughout 2003 ranging from 206,102 gallons in the 3rd Quarter to 284,037 gallons in the 1st Quarter. Approximately 270,938 gallons of groundwater was extracted during the 2nd Quarter and 220,476 gallons were removed during the 4th Quarter.

Average steady state extraction rates for the year were 2.19 gpm during the 1st Quarter, 2.07 gpm for the 2nd Quarter, 1.56 gpm during the 3rd Quarter and 1.66 gpm over the 4th

Quarter. The total volume of groundwater extracted from RW-2D during 2003 represents approximately 2.21 pore volume exchanges in the NPL area for an area 120 ft X 165 ft with an average saturated thickness of 20 feet and an estimated effective porosity of 15%.

2.2 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for the 2003 period are presented in this section. Quarterly groundwater contour maps representative of pumping conditions within the shallow and deep zones are provided on Figures 3 through 10. Pumping conditions in each treatment area of the site are described below.

2.2.1 Shallow Water Bearing Zone

The natural groundwater flow direction is toward the northeast in the NPL and AST/UST Areas. The groundwater flow direction from the UST Area is radial with a general flow direction toward the northeast, with eastern and southeastern flow components. Groundwater contour maps (Figures 3, 5, 7, and 9) represent groundwater flow conditions during pumping in the shallow zone for 2003.

NPL Area

Groundwater flow conditions were uniform within the NPL Area during 2003 under pumping conditions. A cone of depression was maintained throughout the area with an average groundwater elevation difference of 4 to 5 feet. The configuration of the groundwater contours indicate that the majority of groundwater capture occurs from the south, east and west.

AST/UST Area

Groundwater flow across the AST/UST is toward the northwest. Groundwater is extracted in this area from RW-3S, located on the downgradient edge of the area. Pumping performance in this area has remained congruous to conditions experienced during previous years. A significant cone of depression is not developed within this area due to the low transmissivity of the thin saturated zone. The low yield from the recovery well causes the pumping system to cycle as the control system alternately activates and de-activates the pump based upon water level within the well, rather than sustaining a steady pumping rate from the well.

UST Area

No groundwater was directly extracted from the UST Area during 2003. Recovery Well RW-4S was destroyed and RW-5S was made inoperable after the November 2002 UST removals in this area. Evaluation of the groundwater contours in this area indicates that a mound effect of the water table remains after removal of the tanks. Groundwater capture from pumping in the NPL Area is apparent on the western side of the area and to the north beneath Building 5. Groundwater on the east of the area appears to flow away to the northeast, east and south east.

2.2.2 Lower Fine Sand Water Bearing Zone

Groundwater pumping from the LFSWBZ occurred only from RW-2D in the NPL Area during 2003. The natural groundwater flow direction of the deep zone under non-pumping conditions is toward the northeast across the site. Figures 4, 6, 8, and 10 are potentiometric surface contour maps illustrating groundwater flow conditions during pumping in the deep zone during 2003.

The potentiometric contour maps for the four quarters of 2003 are relatively similar, with minor elevation changes due to drawdown differences in RW-2D. Groundwater capture occurs throughout the NPL Area and Building 5. Groundwater contours to the east of Building 5 (offsite) indicate that groundwater capture is not likely in this area.

3.0 Water Quality Results and Summary

Groundwater sampling during 2003 represented the fifth full year of operation of the remedial systems. Groundwater sampling for 2003 consisted of the following:

- Quarterly Recovery Well Sampling for VOCs
- Annual Sampling of the Performance Monitoring Plan (PMP) well network for VOCs
- Monthly influent and effluent sampling of the wastewater pre-treatment system in support of POTW permit requirements.

Tables 3 through 10 summarize the recovery well analytical data. Tables 3-1 through 3-4 provide a summary of the recovery well data for each monitoring quarter. The performance monitoring well data is provided in Tables 11 through 22. Figures 11 and 12 provide a summary of the VOCs detected at each monitoring and recovery well location for the 4th quarter 2003 sampling round. Tables 23 through 26 represent the wastewater influent, treatment and effluent sample data for 2003. Appendix B includes concentration versus time plots for all the Recovery Wells and PMP wells. Laboratory Certificates of Analysis are included in Appendix C. The following sections describe the conditions occurring in each of the three remedial areas, with a comparison to previous analytical results.

3.1 North Parking Lot Area

The NPL Area is the only remedial area onsite that monitors both the shallow unconfined water bearing zone and the deeper confined lower fine sand water bearing zone.

3.1.1 NPL Shallow Water Bearing Zone

The shallow monitoring system for the NPL Area consists of Recovery Wells RW-1S and RW-2S, as well as monitoring wells MW-6, MW-7S, MW-14S, and MW-15S. Tables 4 and 5 summarize the quarterly recovery well analytical results. Annual groundwater sampling results for the NPL Area monitoring wells are summarized in Tables 13, 14, 17, and 19.

VOCs detected in RW-1S (Table 4) during the 4th quarter 2003 sampling round included vinyl chloride (9.3 ug/l), cis-1,2-DCE (1,900 ug/l), and TCE (280 ug/l). Other VOCs detected earlier in 2003 included 1,1-DCE and trans-1,2-DCE. Cis-1,2-DCE and TCE have shown variable concentrations in 2003, as experienced historically. While vinyl chloride has exhibited a decreasing trend since 2001, concentrations fluctuated in 2003. The other detected VOCs remained at relatively low levels similar to 2002 concentrations.

VOCs detected in RW-2S (Table 5) during the 4th quarter sampling include cis-1,2-DCE (17 ug/l), and TCE (15 ug/l). Both compounds showed variable detections throughout 2003. Additionally, vinyl chloride was detected in this well during the 1st and 3rd quarters at low level concentrations.

Monitoring well MW-6 is located in the northwest portion of the NPL Area. No VOCs have been detected in this well for the past three annual sampling events.

Monitoring well MW-7S is located in the northeast corner of the NPL Area adjacent to RW-2S and RW-2D. VOCs detected within this well in the December 2003 sampling were cis-1,2-DCE (9.9 ug/l) and TCE (6.6 ug/l). Results remained constant from the 2002 detections of 11 ug/L and 7.5 ug/L.

Monitoring well MW-14S is located on the Hope property to the north of the NPL Area. Vinyl chloride (190 ug/l), 1,1-DCE (39 ug/l), cis-1,2-DCE (3,200 ug/l), trans-1,2-DCE (23 ug/L), TCE (2,700 ug/L), and benzene (2.5 ug/L) were the compounds detected in this well during the December 2003 sampling event. All constituents, with the exception of benzene, increased by an order of magnitude from the 2002 event. Benzene has only showed one other similar low level detection in the November 2000 event.

Trichloroethene at 13 ug/L was the only constituent detected at Monitoring Well MW-15S, located on the east portion of the Hope property to the north. TCE was previously detected in all sampling events, prior to December 2001, with similar detections of 15 ug/L in 1999 and 24 ug/L in 2000.

3.1.2 NPL Lower Fine Sand Water Bearing Zone

The NPL deep water-bearing zone monitoring network consists of Recovery Wells RW-1D and RW-2D sampled quarterly, and Monitoring Wells MW-7D, MW-8, MW-14D, MW-15D and MW-19D sampled annually. Historical analytical results for Recovery Wells RW-1D and RW-2D are summarized on Tables 9 and 10. The monitoring well analytical historical results are provided on Tables 15, 18, 20, and 21.

VOCs detected in RW-1D during the 4th quarter 2003 event included 1,1-DCE (13 ug/l), cis-1,2-DCE (40 ug/l), trans-1,2-DCE (15 ug/L), and TCE (39 ug/l). While most VOCs concentrations remained relatively constant compared to other historical rounds, as well as the 2003 quarterly sampling events, TCE dropped by two orders of magnitude. Other constituents detected in this well during 2003 were benzene and vinyl chloride, both at relatively low levels.

VOCs detected at RW-2D (Table 10) during the 4th Quarter sampling round included vinyl chloride (1,300 ug/l), 1,1-DCE (19 ug/l), cis-1,2-DCE (3,900 ug/l), trans-1,2-DCE (28 ug/l), TCE (400 ug/l), and benzene (8.3 ug/l). All VOC concentrations remained relatively constant throughout 2003.

Monitoring Well MW-7D is located adjacent to Recovery Well RW-2D in the NPL Area. VOCs detected in this well during the December 2003 sampling event included vinyl chloride (860 ug/l), 1,1-DCE (6.1 ug/l), cis-1,2-DCE (2,500 ug/l), trans-1,2-DCE (12 ug/l), and benzene (5.6 ug/l) as shown in Table 15. Note that a duplicate sample was collected from this well for the sampling event. With the exception of vinyl chloride, which decreased by nearly one half from

2002, all other constituents detected in this well showed steady concentrations. TCE, which was previously detected in all other events, dropped below detection limits during the November 2003 event.

Monitoring Well MW-8 is located within the NPL Area to the west of RW-2D. VOCs detected in this well for 2002 included vinyl chloride (25 ug/l) and cis-1,2-DCE (65 ug/l). Both constituents illustrated only a minor change from 2002 concentrations.

Monitoring Wells MW-14D and MW-15D are located offsite to the north on the Hopes Property. At MW-14D (Table 18), only vinyl chloride was detected at 2.2 ug/l. VOCs detected in MW-15D (Table 20) included vinyl chloride (260 ug/l), 1,1-DCE (62 ug/l), cis-1,2-DCE (8,900 ug/l), trans-1,2-DCE (91 ug/l), and TCE (1,400 ug/l). All constituents exhibited a dramatic increase from 2002 concentrations.

The only VOC detected in Monitoring Well MW-19D (Table 21), located on the eastern property line, was vinyl chloride at 600 ug/l. This concentration is comparable to the 2002 detection of 660 ug/L.

3.2 AST/UST Area

The AST/UST Area shallow groundwater is monitored by Recovery Well RW-3S and Monitoring Well MW-2. Historical groundwater quality results for these wells are provided on Tables 6 and 12.

The only VOCs detected in RW-3S (Table 6) during the 4th quarter of 2003 included xylenes (97 ug/l). Other constituents detected during earlier 2003 events included benzene, ethylbenzene, and isopropylbenzene. All constituents showed variable concentrations throughout 2003, similar to those exhibited in 2002.

VOCs detected for the 2003 annual monitoring at MW-2 (Table 12), located within the AST/UST Area, were isopropylbenzene (5.1 ug/l), and benzene (3.5 ug/l). Constituent concentrations are consistent with the 2002 annual results.

3.3 UST Area

Monitoring points in the UST Area consist of Recovery Wells RW-4S and RW-5S that are sampled quarterly and Monitoring Well MW-20 which are sampled annually. Historical laboratory results for these wells are summarized on Tables 7, 8, and 22. During UST removal activities in November-December 2002, RW-4S was destroyed and RW-5S made inoperable. Therefore, these wells are no longer sampled as of 4th Quarter 2002. VOCs of concern in the UST Area have been shown to be primarily cumene, toluene, ethylbenzene and xylenes.

VOCs detected at MW-20 (Table 22) located to the north of the UST Area included benzene (2.2 ug/l), isopropylbenzene (530 ug/l), toluene (3,100 ug/l), ethylbenzene (4,800 ug/l), xylenes (35,800 ug/l), acetone (34 ug/l), and 2-butanone (14 ug/l). Ethylbenzene and xylenes concentrations approximately doubled their 2002 values of 2,300 ug/l and 18,500 ug/l,

respectively while toluene increased by an order of magnitude from 440 ug/l. Benzene concentration remained at low levels consistent with results over time since 2000. Acetone, previously detected at low levels, and 2-butanone were detected during the 2003 event.

3.4 Pre-Treatment System Analytical Data

Groundwater pre-treatment system data for 2003 is summarized on Tables 23 through 26. These tables represent system influent, individual carbon vessel effluent and post carbon (system discharge to POTW) concentrations. Note that prior to June 2003, three carbon vessels were used for treatment of groundwater prior to discharge to the POTW. The third carbon vessel was added to the system as a safeguard during the UST removal activities for treatment of tank liquids and decontamination rinsate waters in December of 2002.

Pre-Carbon influent concentrations reflect a composite from all of the operating groundwater extraction wells prior to pre-treatment. The constituents detected during the year are benzene (4.7 to 7.3 ug/l), 1,1-DCE (9.0 to 15 ug/L), cis-1,2-DCE (2,300 to 4,300 ug/l), trans-1,2-DCE (10 to 30 ug/l), TCE (270 to 630 ug/l), toluene (<5 to 120 ug/l), vinyl chloride (380 to 680 ug/l), and xylenes (<5 to 15.1 ug/l).

On June 12, 2003, the primary carbon unit was taken off-line and the secondary and third carbon units were moved to the primary and secondary positions, respectively. Since this time, only two carbon units have been utilized. There was also a carbon change-out on October 28, 2003. These changes were implemented to prevent any concentrations exceeding the POTW discharge permit levels.

4.0 SVE/Sparging System Performance

The soil vapor extraction (SVE) and groundwater sparging systems in the NPL, UST and AST/UST Areas were started-up during the third and fourth quarters of 1997. The SVE/Sparging systems were designed to enhance dissolved constituent removal from the shallow water-bearing zone in the NPLS Area; and to reduce the contaminant source in both the unsaturated zone and shallow groundwater in the AST/UST and UST Areas. No air sparging was conducted in the UST Area during 2003 as the SVE/Sparging System in the UST Area was demolished in November 2002 as part of the UST tank removal activity. System operational data, air stream analytical data and estimated mass removal calculations for 2003 are presented in Appendix D.

Air stream analytical samples were collected periodically throughout the operational period to monitor system performance in each treatment area. The air samples are analyzed for volatile and semi-volatile constituents by Microseeps Inc. of Pittsburgh, Pennsylvania. The air stream samples represent a grab sample of the system influent (main header) and effluent (post carbon) for the date collected. Influent sample results vary depending upon system extraction efficiency related to the moisture content in the vadose zone and the quantity of condensate water collected in the SVE wells and piping laterals.

4.1 NPL Area

The SVE system in the NPL Area is operated primarily as a safeguard to collect any potential gases released from groundwater as a result of the 2000-2002 PRB pilot test. The groundwater air-sparging system was shut down in 2000 to eliminate potential interference with the PRB pilot test with the approval of the NYSDEC. In May of 2002, the SVE system was shutdown for the processing of fluids generated as a result of work performed in the UST area. The system remained shutdown throughout the summer months for maintenance and was restarted in September of 2002.

Air stream samples collected in the NPL Area during 2003 showed detections for TCE in the second and fourth quarters. No VOCs were detected in the first quarter and no air stream samples were collected in the third quarter. The total air stream concentrations detected in 2003 were dramatically less than the 2002 total. An estimated 0.42-lbs of VOCs were removed from the unsaturated zone by the SVE system for the operation year of 2003, for a total of approximately 15.11-lbs since 1997.

4.2 AST/UST Area

Air stream samples in the AST/UST Area showed only TCE and cis-1,2-DCE in the first quarter at 0.024 ppmv and 0.023 ppmv, respectively. No VOCs were detected in the second and fourth quarter sampling and no air stream samples were collected in the third quarter. An estimated 0.21-lbs of VOCs were removed from the area in 2003. Combined with recovery since 1997, a total of approximately 38.05-lbs of VOCs have been removed since the start of operations.

4.3 UST Area

The SVE system in this area was shut down and demolished in October 2002 due to UST removal activities and the closeout of the USTs. Prior to demolition of the system, a total of approximately 32.2-lbs of VOCs were removed since the start of operations in 1997.

5.0 Performance Summary

The performance and progress of remedial activities completed at the site during calendar year 2003 is summarized as follows:

5.1 Groundwater Extraction

Groundwater extraction volume from the shallow zone was slightly greater in 2003 than the previous year, with approximately 15% more groundwater extracted at 602,338 gallons removed. Hydraulic control was maintained in the NPL Area with a slightly larger groundwater cone of depression across the NPL Area. Groundwater recovery in the AST/UST Area was approximately 25% less than that recovered during 2002. The leading factor in the recovery volume decrease was the increased down time of the well pump due to mechanical failure.

Groundwater recovery from the deep zone was approximately 25% greater than the previous year, with a total of 981,553 gallons of water removed. This increase in volume corresponds to a greater cone of depression, and increased influence throughout the area. Note that the frequency or rate of precipitate buildup in RW-2D was less during 2003 than experienced in previous years. The recovery well and associated equipment required only one cleaning during the 1st Quarter 2003 to remove hydroxide precipitates associated with the PRB pilot test zero-valent iron injections in the area of RW-2D..

5.2 Groundwater Quality

NPL Area Shallow Zone

Overall, VOC concentrations decreased in the NPL Area shallow zone in 2003 as compared to the previous annual sampling. In onsite wells (RW-1S, RW-2S and MW-7) TCE and vinyl chloride concentrations decreased or remained at similar levels. Cis-1,2-DCE exhibited the same behavior with the exception of RW-1S where the concentration increased by an order of magnitude from 2002. These compounds are an indication of TCE degradation, resulting from both the PRB pilot test and natural attenuation. All detected VOC concentrations at MW-14S, located offsite to the north of the NPL Area, increased by an order of magnitude relative to 2002 data.

NPL Area Deep Zone

VOC concentrations in the NPL Area LFSWB zone exhibited the following changes over the course of the year. TCE concentrations either declined or stayed the same. Vinyl chloride increased near the pumping well RW-2D and decreased at RW-1D and MW-19D. At MW-15D, located offsite to the northeast, vinyl chloride remained at similar levels as compared to 2001. Cis-1,2-DCE decreased near the pumping well, and increased at RW-1D and MW-15D. 1,1-DCE and trans-1,2-DCE remained at relatively similar levels as recorded last year.

AST/UST Area Shallow Zone

Groundwater VOC concentrations in the AST/UST Area as monitored by RW-3S and MW-2 continue to exhibit a decreasing trend toward site cleanup criteria. At RW-3S, xylenes continuously decreased over 2003 with one anomaly in the fourth quarter, while all other constituents have dropped below detection limits. The only constituent remaining just above cleanup criteria at MW-2 is isopropylbenzene.

5.3 Soil Vapor Extraction/Air Sparging Systems

NPL Area

Only the soil vapor extraction system was operated during the year to recover subsurface gases generated by the PRB pilot test injections. No air sparging has been completed in the shallow groundwater since August of 2000. VOCs recovered during 2003 included TCE, cis-1,2-DCE and toluene, with toluene and cis-1,2-DCE being the predominant constituents. Total VOCs recovered from the vadose zone have slightly increased since the 2nd Quarter of 2000 with total VOCs ranging between approximately 0.9 to 1.4 ppmv. Prior to this, total VOCs ranged between approximately 0.01 and 0.3 ppmv between 1998 and the first half of 2000. Total VOCs recoveries were highest in this area during 2001 and 2002 with 4.27 and 4.43 lbs removed, respectively.

AST/UST Area

Both the SVE and air sparging system were operated in this area during 2002. VOC recovery has decreased since peak recoveries in 1998 as the area's soils and groundwater has been successively remediated. The only VOC recovered during 2002 was toluene, ranging between non-detect to 0.66 ppmv. VOC recovery has tailed off since 1998 (21.8 lbs) to 2.12 lbs in 2001 and 1.89 lbs in 2002. Soil sampling conducted at the end of 2001 indicated only three hot spots remained at the water table interface above cleanup criteria. Additional confirmatory sampling will be completed in this area during 2004.

TABLES

Table 1

**Soil and Groundwater Remedial Action Objectives (RAOs)
Essex/Hope Site
Jamestown, New York**

MEDIA	PARAMETER	RAO
Soil	Total Volatile Organics Compounds (VOCs)	10 ppm
	Each individual VOC	1 ppm
	Total Semi-Volatile Organic Compounds (SVOCs)	500 ppm
	Each Individual SVOC	50 ppm
	Polychlorinated Biphenyls (PCBs)	10 ppm
Groundwater⁽¹⁾	Trans-1,2-Dichloroethylene	5 ppb
	Trichloroethene (trichloroethylene)	5 ppb
	Vinyl Chloride	5 ppb
	Ethylbenzene	5 ppb
	Toluene	5 ppb
	Xylene	5 ppb
	PCBs	0.1 ppb

(1) = Other compounds, not listed, would have RAOs in compliance with NYSDEC Ambient Groundwater Quality Standards.

ppm = part per million

ppb = part per billion

Table 2

**2003 Groundwater Extraction Summary
Essex/Hope
Jamestown, New York**

Period	Recovery Well				
	RW-1S Gallons Pumped	RW-2S Gallons Pumped	RW-3S Gallons Pumped	RW-1D Gallons Pumped	RW-2D Gallons Pumped
1st Quarter 2003	18,741	157,005	4,021	0	284,037
2nd Quarter 2003	16,282	169,729	4,845	0	270,938
3rd Quarter 2003	13,172	95,837	5,584	0	206,102
4th Quarter 2003	18,863	97,042	1,217	0	220,476
Total Estimated 2003 Volume	67,058	519,613	15,667	0	981,553

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	NPLS Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter 2003	175,746	4,021	284,037
2nd Quarter 2003	186,011	4,845	270,938
3rd Quarter 2003	109,009	5,584	206,102
4th Quarter 2003	115,905	1,217	220,476
Total Estimated 2003 Volume	586,671	15,667	981,553

Period	Total Estimated Gallons Pumped - All Areas
1st Quarter 2003	463,804
2nd Quarter 2003	461,794
3rd Quarter 2003	320,695
4th Quarter 2003	337,598
Total Estimated 2003 Volume	1,583,891

Table 3-1
1st Quarter Sampling
February 22, 2003
Recovery Well Analytical Results

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	RW-1S (ug/L)	RW-1D (ug/L)	RW-2S (ug/L)	RW-2D (ug/L)	RW-3S (ug/L)	Trip Blank (ug/L)
Acetone	-	<10	<10	<10	<5.0	<5.0	<5
Benzene	-	<1.0	4.8	<1.0	9.7	40	<1
2-Butanone	-	<10	<10	<10	<10	<10	<10
Chloroform	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Isopropylbenzene	-	<5.0	<5.0	<5.0	<5.0	25	<5
1,1-Dichloroethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5
1,1-Dichloroethene	-	9.5	14	<5.0	26	<5.0	<5
cis-1,2-Dichloroethene	-	1000	1,700	120	6,000	<5.0	<5
trans-1,2-Dichloroethene	5	7	15	<5.0	26	<5.0	<5
Ethylbenzene	5	<5.0	<5.0	<5.0	<5.0	150	<5
4-Methyl-2-Pentanone	-	<10	<10	<10	<10	<10	<10
Methylene Chloride	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Tetrachloroethene	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Toluene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5
Trichloroethene	5	4,000	34	340	490	<5.0	<5
Vinyl Chloride	5	120	11	6.4	1,100	<2	<2
Total Xylenes	5	<5.0	<5.0	<5.0	<5.0	152	<5

Note:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Table 3-2
2nd Quarter Sampling
May 17, 2003
Recovery Well Analytical Results

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	RW-1S (ug/L)	RW-1D (ug/L)	RW-2S (ug/L)	RW-2D (ug/L)	RW-3S (ug/L)	Trip Blank (ug/L)
Acetone	-	<10	<10	<10	<10	<10	28
Benzene	-	<1	7.6	<1	11	10	<1
2-Butanone	-	<10	<10	<10	<10	<10	<10
Chloroform	-	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	-	<5	<5	<5	<5	6.8	<5
1,1-Dichloroethane	-	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	<5	19	<5	23	<5	<5
cis-1,2-Dichloroethene	-	190	2,200	32	5,000	<5	<5
trans-1,2-Dichloroethene	5	<5	22	<5	21	<5	<5
Ethylbenzene	5	<5	<5	<5	<5	42	<5
4-Methyl-2-pentanone	-	<10	<10	<10	<10	<10	<10
Methylene Chloride	-	<5	<5	<5	<5	<5	<5
Tetrachloroethene	-	<5	<5	<5	<5	<5	<5
Toluene	5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	1,400	46	69	840	<5	<5
Vinyl Chloride	5	26	<2	<2	960	<2	<2
Total Xylenes	5	<5	<5	<5	<5	125	<5

Note:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Table 3-3
3rd Quarter Sampling
August 14, 2003
Recovery Well Analytical Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	RW-1S (ug/L)	RW-1D (ug/L)	RW-2S (ug/L)	RW-2D (ug/L)	RW-3S (ug/L)	Trip Blank (ug/L)
Acetone	-	<10	<10	<10	<10	<10	24
Benzene	-	<1	<1	<1	9.2	17	<1
2-Butanone	-	<10	<10	<10	<10	<10	<10
Chloroform	-	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	-	<5	<5	<5	<5	13	<5
1,1-Dichloroethane	-	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	7.8	11	<5	22	<5	<5
cis-1,2-Dichloroethene	-	970	1,600	140	4,500	<5	<5
trans-1,2-Dichloroethene	5	8.1	19	<5	29	<5	<5
Ethylbenzene	5	<5	<5	<5	<5	33	<5
4-Methyl-2-pentanone	-	<10	<10	<10	<10	<10	<10
Methylene Chloride	-	<5	<5	<5	<5	<5	89
Tetrachloroethene	-	<5	<5	<5	<5	<5	<5
Toluene	5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	3,900	37	390	600	<5	<5
Vinyl Chloride	5	41	<2	2.8	1,000	<2	<2
Total Xylenes	5	<5	<5	<5	<5	15	<5

Note:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Table 3-4
4th Quarter Sampling
December 21, 2003
Recovery Well Analytical Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	RW-1S (ug/L)	RW-1D (ug/L)	RW-2S (ug/L)	RW-2D (ug/L)	RW-3S (ug/L)	Trip Blank (ug/L)
Acetone	-	<10	<10	12 ^B	<10	<10	19
Benzene	-	<1	<1	<1	8.3	<1	<1
2-Butanone	-	<10	<10	<10	<10	<10	<10
Chloroform	-	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	-	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	-	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	<5	13	<5	19	<5	<5
cis-1,2-Dichloroethene	-	1,900	40	17	3,900	<5	<5
trans-1,2-Dichloroethene	5	<5	15	<5	28	<5	<5
Ethylbenzene	5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	-	<10	<10	<10	<10	<10	<10
Methylene Chloride	-	<5	<5	<5	<5	<5	<5
Tetrachloroethene	-	<5	<5	<5	<5	<5	<5
Toluene	5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	280	39	15	400	<5	<5
Vinyl Chloride	5	9.3	<2	<2	1,300	<2	<2
Total Xylenes	5	<5	<5	<5	<5	97	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

Table 4
RW-1S
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)	Dec-02 (ug/L)	Feb-03 (ug/L)	May-03 (ug/L)	Aug-03 (ug/L)	Dec-03 (ug/L)
Acetone	-	10	< 58 ^B	< 10	< 10	< 200	< 25	< 50	< 10	< 5	< 5	9	< 5	< 10	< 5	15 ^B	< 5	< 5	< 5	< 5	50	< 5	14	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	-	NA	< 25	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone	-	NA	120	< 10	< 10	< 200	< 5	< 50	< 10	< 5	< 5	< 5	< 5	< 10	< 5	9	< 5	< 5	< 5	< 5	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	-	NA	< 25	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene	-	NA	NA	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	14	6.1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	< 5	< 5	< 5	5.4	5.4	< 5	8.4	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	530	1,200	780	760	59	1,100	66	1,000	190	970	1,900
trans-1,2-Dichloroethene	5	1,700	160	< 5	< 5	< 5	< 5	< 25	9	2	2	< 1	< 1	< 5	< 1	77	7.2	< 5	< 5	11	< 5	12	< 5	5.2	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	5	NA	< 25	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	9	2.52	< 5	< 5	< 5	< 5	77	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene Chloride	-	< 17	< 35 ^B	11	< 5	< 100	18	10 J	< 5	< 1	1 ^B	2	2 ^B	< 5	4 ^B	8	6.01 ^B	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	3,500	460	< 5	1,900 D	12,000	910	570	1,300	180 D	590	41	37	41	24	150	120	100	1,500	3,300	1,800	2,300	360	2,400	210	4,000	1,400	3,900	280
Toluene	5	NA	< 25	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	< 1	< 1	< 5	< 1	4	1.34	< 5	< 5	< 5	< 5	38	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	5	240	< 25	< 5	32	110	< 5	11 J	20	6	3	1	< 1	< 5	< 1	470 D	320 D	28	150	160	180	87	< 2	26	12	120	26	41	9.3
Total Xylenes	5	4	< 25	< 5	< 5	< 100	< 5	< 25	< 5	< 1	< 1	2	5	< 5	< 3	78	22	< 5	< 5	< 5	< 5	480	< 5	< 5	< 5	< 5	< 5	< 5	< 5

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	NA	< 0.10	NA	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1221	0.1	NA	< 0.20	NA	< 0.3	< 0.3	< 0.1	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20
Aroclor-1232	0.1	NA	< 0.10	NA	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1242	0.1	NA	< 0.10	NA	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1248	0.1	NA	< 0.10	NA	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1254	0.1	< 1	< 0.10	NA	< 0.3	< 0.3	< 0.1	0.032 J	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10
Aroclor-1260	0.1	NA	< 0.10	NA	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detect due to blank contamination
D, * = Analyzed with dilution See laboratory reports for dilution factors
** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.
E = Concentration exceeded calibration range of instrument.
J = Estimated Concentration
NA = Not Analyzed

Table 5
RW-2S
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)	Dec-02 (ug/L)	Feb-03 (ug/L)	May-03 (ug/L)	Aug-03 (ug/L)	Dec-03 (ug/L)
Acetone	-	<10/<10	<10	<500	<10	<50	<5	<10	<10	<5	<50	<5	<5	<10	<5	65 ^B	<5	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	12 ^B
Benzene	-	NA	<5	<250	<5	<25	<1	<5	<5	<1	<10	<1	<1	<5	<1	<2	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	-	NA	<10	<500	<10	<50	<5	<10	<10	<5	<50	<5	<5	<10	<5	21	<5	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10
Chloroform	-	NA	<5	<250	<5	<25	<1	<5	<5	<1	<10	<1	<1	<5	<1	<2	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-	NA	NA	<250	<5	<25	<1	<5	<5	<1	<10	<1	<1	<5	<1	2	1.54	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	620	400	500	110	99	6.6	210	8.9	120	32	140	17
trans-1,2-Dichloroethene	5	2,200/2,600	130	<250	<5	<25	<1	17	<5	<1	<10	<1	<1	<5	<1	92	56	6.7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	NA	<5	<250	<5	<25	<1	<5	<5	<1	<10	3	<1	<5	<1	2	1.34	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	-	<10/<10	<13 ^B	880	<5	30	<1	2 J	<5	<1	36 ^B	<1	5 ^B	<5	4 ^B	48 ^B	4.23 ^B	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.93	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	NA	<5	<250	<5	<25	<1	<5	<5	<1	<10	<1	<1	<5	<1	<2	2.01	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	7,700/10,000	410 D	3,700	750 D	380	120	970 E	1,100	1,900 D	2,700	1,500 D	17	46	490 D	43	6,400 D	1,500	2,200	2,900	22	7.7	200	630	7.2	340	69	390	15
Vinyl Chloride	5	100/81	<5	<250	<5	<25	<1	<5	6	4	<10	2	<1	<5	<1	180	470 D	120	38	<2	15	5.6	<2	7.4	<2	6.4	<2	2.8	<2
Total Xylenes	5	<10/10	<5	<250	<5	<25	<1	<5	<5	<1	<10	20	2	<5	<3	17	13	<5	<5	<5	<5	<5	6.5	<5	<5	<5	<5	<5	<5

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)												
Arcochlor-1016	0.1	NA	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												
Arcochlor-1221	0.1	NA	<0.20	NA	<0.3	<0.3	<0.1	<0.2	<0.2	<0.2	<0.20	<0.20	<0.10	<0.20												
Arcochlor-1232	0.1	NA	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												
Arcochlor-1242	0.1	NA	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												
Arcochlor-1248	0.1	NA	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												
Arcochlor-1254	0.1	<1/<1	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												
Arcochlor-1280	0.1	NA	<0.10	NA	<0.3	<0.3	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10												

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detect due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors.
** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.
E = Concentration exceeded calibration range of instrument
J = Estimated Concentration
NA = Not Analyzed

Table 6
RW-3S
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-05-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)	Dec-02 (ug/L)	Feb-03 (ug/L)	May-03 (ug/L)	Aug-03 (ug/L)	Dec-03 (ug/L)
Acetone	-	< 2000	< 1000	14	<500	<50	<100	< 10	<5	15	<5	<10	10	18 ^B	<5	<10	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10
Benzene	-	< 1000	< 500	21	<250	15	16 J	9	17	<2	7	11	<5	12	18	11	7.7	35	21	52	1.3	<1	1.6	16	40	10	17	<1
2-Butanone	-	< 2000	< 1000	< 10	<500	<50	<100	< 10	<5	<10	<5	<10	<10	<10	<5	<10	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10
Chloroform	-	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-	NA	< 500	160	<250	71	110	24	83	3	34	39	13	47	50	24	17	38	27	56	<5	15	<5	13	25	6.8	13	<5
1,1-Dichloroethane	-	<1000	<500	<5	<250	<50	<50	<5	2	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	6.3	<5	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	1,800	740	1,100 D	940	510	600	780	490 D	12	140	190	81	180	210 D	120	96	190	95	310	11	97	9.1	<5	150	42	33	<5
Methylene Chloride	-	< 1000	< 500	< 5	360	<10	<50	< 5	<1	12 ^B	<1	2 ^B	<5	57 ^B	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	7,700	4,800	3,700 D	1,700	430	180	< 250	83	3	15	8	6	6	2	<2	<5	<5	<5	<5	<5	140	<5	<5	<5	<5	<5	<5
Trichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	87 D	<2	<1	2	<10	<2	2	2.66	<5	<5	<5	<5	<5	<5	<5	8.2	<5	<5	<5	<5
Vinyl Chloride	5	< 1000	< 500	11	<250	<10	<50	< 5	11	<2	<1	<2	<5	<2	2	<2	<2	<2	<2	<5	<5	<2	<2	<2	<2	<2	<2	<2
Total Xylenes	5	22,000	11,000	13,000 D	13,000	5,100	4,200 E	20,000	3,100 D	370	700 D	640	370 D	440	150	93	184	279	99	590	55	95	63.4	<5	152	125	15	97

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Atroclor-1016	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1221	0.1	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Atroclor-1232	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1242	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1248	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1254	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1260	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detected due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors
E = Concentration exceeded calibration range of instrument
J = Estimated Concentration
NA = Not Analyzed

Table 7
RW-4S
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-00 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)
Acetone	-	< 3200 ^F	< 200	800	<5000	<500	<1000	58	<1300	<2,500	87	<2500	67	1600 ^B	44 ^B	<2500	27	18	15	33	29	25	<10
Benzene	-	< 1000	< 100	26	<2500	<100	<500	6	<250	<500	25	<500	19	<250	27	<500	20	26	25	14	18	21	<1
2-Butanone	-	< 2000	< 200	82	<5000	<500	<1000	< 10	<1300	<2,500	13	<2500	<10	<1300	<5	<2500	<5	6.5	<5	<10	<5	<10	<10
Chloroform	-	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-		< 100	210	<2500	130	310 J	43	<250	<500	210	<500	130	<250	260 E	<500	150	140	180	120	170	190	38
1,2-Dichloroethane	-	<1000	<100	<25	<2500	<100	<500	<5	<250	<500	1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	-																<5	<5	7.4	<5	9.3	<5	<5
trans-1,2-Dichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	7,800	550	17,000 D	9,400	8,800	19,000	18,000	11,000	12,000	15,000 D	13,000	160	12,000	14,000 ^D	11,000	11,000	9,000	<5	7,900	<5	14,000	1,700
4-Methyl-2-pentanone	-																	14	14	14	20	<10	<10
Methylene Chloride	-	< 1200 ^F	220	< 25	6,500	<100	<500	< 5	<250	1,300 D	<1	5,600 ^B	<5	1100 ^B	<1	1,600	<5	<5	<5	<5	<5	<5	<5
Toluene	5	6,100	< 100	3,100 D	<2500	1,600	8,400	110,000	2,500	390	4,700 D	3,800	2,900 D	6,500	7,200 D	5,400	4,700	4,500	3,600	3,100	2,500	7,000	560
Trichloroethene	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	540	2	<500	<5	<250	2	770	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	5	< 1000	< 100	< 25	<2500	<100	<500	< 5	<250	<500	<1	<500	<5	<250	<1	<500	<2	<2	<2	<5	<5	<2	<2
Total Xylenes	5	45,000	3,000	97,000 D	51,000	46,000	97,000 E	110,000	72,000	77,000	81,000 D	80,000	57,000 D	87,000	81,000 DE	74,000	72,000	65,000	63,000	64,000	88,000	101,000	14,200

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-00 (ug/L)	Feb-00 (ug/L)
Arroclor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Arroclor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	< 0.2	<0.20	<0.10	<0.20
Arroclor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Arroclor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Arroclor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Arroclor-1254	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10
Arroclor-1260	0.1	0.092 J	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detected due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors.
E = Concentration exceeded calibration range of instrument.
J = Estimated Concentration
N/A = Not analyzed

Table 8
RW-5S
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)
Acetone	-	< 200	< 200	< 20	<20	<10	33 J	11	<5	<5	<5	<5	<10	<5	16 ^B	<500	<5	<5	<5	14	35	<10	<10
Benzene	-	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<400	<1	<1	<1	<5	<5	29	<1
2-Butanone	-	< 200	440	< 20	<20	66	69	< 10	<5	<5	<5	<5	<10	<5	<1	<500	<5	<5	<5	<10	<5	<10	<10
Chloroform	-	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<400	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-		< 100	< 10	<10	6	8 J	11	7	<1	4	3	<5	5	4	470	<5	<5	<5	<5	15	51	<5
cis-1,2-Dichloroethene																	<5	<5	180	<5	<5	<5	<5
trans-1,2-Dichloroethene	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<400	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloropropane		<100	<100	<10	<10	<2	<25	<5	<1	<5	1	<1	<5	<1	<1	<400	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	620	420	35	<10	57	92	120	74	3	53	22	<5	41	29	46,000	35	20	91	<5	83	180	<5
Methylene Chloride	-	< 130 ^B	580	< 10	<10	8	<25	34	1	1 ^B	<1	2 ^B	<5	4 ^B	9	340	<5	<5	<5	<5	<5	<5	<5
Toluene	5	< 100	< 100	17	15	520	890	320	94	7	16	<1	<5	15	7	6,100	<5	12	370	<5	6.9	6.6	<5
Trichloroethene	5	< 100	< 100	< 10	<10	34	<25	7	<2 ^B	7	<1	<1	<5	<1	<1	<400	<5	<5	6.2	<5	<5	<5	<5
Vinyl Chloride	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	2	<1	<1	<5	<1	<1	<400	<2	<2	14	<5	<5	<2	<2
Total Xylenes	5	2,000	2,300	410	86	520	640	570	330	26	660 D	63	12	82	68	73,000 D	186	231	445	11	274	35	7.3

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aractor-1016	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aractor-1221	0.1	< 0.20	N/A	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Aractor-1232	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aractor-1242	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aractor-1248	0.1	< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aractor-1254	0.1	< 0.10	N/A	0.28 J	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aractor-1260	0.1	0.042 J	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
The November 2000 analytical data is considered suspect and non-representative of Recovery Well RW-5S.
B = Qualified as non-detected due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors.
J = Estimated Concentration
N/A = Not analyzed

Table 9
RW-1D
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Apr-8-00 (ug/L)	Apr-30-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Apr-05-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)	Dec-02 (ug/L)	Feb-03 (ug/L)	May-03 (ug/L)	Aug-03 (ug/L)	Dec-03 (ug/L)
Acetone	-	< 19 ^a	< 10	< 10	37	<5	<10	< 10	<5	<5	<10	<10	14 ^a	<25	4 J ^a	<5	<5	<5	<5	12	<5	<10	<10	<10	<10	<10	<10	<10
Benzene	-	< 5	< 5	< 5	< 5	<1	<5	< 5	2	2	<2	6	23	17	4	14	3.7	6.0	3.6	<5	9.7	6.6	3.6	5.6	4.8	7.6	<1	<1
2-Butanone	-	< 10	< 10	< 10	<10	<5	<10	< 10	<5	<5	<10	<10	<5	<25	<5	<5	<5	<5	<5	<10	<5	<10	<10	<10	<10	<10	<10	<10
Chloroform	-	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-	NA	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	<5	<5	<5	<5	<1	<5	<5	3	4	2	54	85	53	11	41	10	12	12	<5	25	15	11	11	14	19	11	13
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,500	1,700	1,400	180	3,000	2,300	1,400	1,300	1,700	2,200	1,600	40
trans-1,2-Dichloroethene	5	26	< 5	< 5	<5	2	2 J	< 5	4	4	16	43	110	84	17	52	14	12	17	<5	41	9.4	6.8	13	15	22	19	15
Ethylbenzene	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	-	< 8 ^a	14	< 5	<5	3	2 J	< 5	<1	1 ^B	3	24 ^B	11 ^B	27 ^B	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	< 5	< 5	< 5	<5	<1	3 J	6	<10 ^B	19	<2	38	8	25	16	150	<5	14	73	<5	62	8.1	39	14	34	46	37	39
Vinyl Chloride	5	23	29	93	200	200	130	130	140 D	210	120	830 D	450 D	530	25	910 D	<2	110	130	360	52	<100	26	<2	11	<2	<2	<2
Total Xylenes	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<3	<15	<3	<1	<5	<5	<5	<5	<5	15	<5	<5	<5	<5	<5	<5

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Atroclor-1016	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1221	0.1	< 0.20	NA	< 0.3	< 0.3	<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Atroclor-1232	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1242	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1248	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1254	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Atroclor-1260	0.1	< 0.10	NA	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detect due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors.
J = Estimated Concentration
NA = Not Analyzed

Table 10
RW-2D
Quarterly Sample Results

Volatile Compounds (Method 8260B)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)	Apr-00 (ug/L)	Aug-00 (ug/L)	Nov-00 (ug/L)	Mar-01 (ug/L)	Jul-02-01 (ug/L)	Sept-01 (ug/L)	Jan-06-02 (ug/L)	Mar-02 (ug/L)	Jul-05-02 (ug/L)	Sept-02 (ug/L)	Dec-02 (ug/L)	Feb-03 (ug/L)	May-03 (ug/L)	Aug-03 (ug/L)	Dec-03 (ug/L)
Acetone	-	<10	< 90 ^a	< 100	< 10	<500	<130/<130	<250	< 10	<5	<5	<5	<100	<10	120 ^b	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	-	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	<5	<10	3	4.7	6.5	7.2	7.5	9.2	9.9	9.1	9.5	9.7	9.7	11	9.2	8.3
2-Butanone	-	NA	130	270	< 10	<500	<25/<25	<250	< 10	<5	<5	<5	<100	<10	<50	16	<5	<5	<5	<5	<10	<5	28	<10	<10	<10	<10	<10	<10
Chloroform	-	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	-	NA	NA	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	-	NA	<5	<50	<5	<250	<25	>120	<5	5	6	<1	65	6	<10	12	25	17	16	25	25	33	<5	32	22	26	23	22	19
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,200	4,200	7,900	7,800	12,000	50	7,900	4,300	6,000	5,000	4,500	3,900
trans-1,2-Dichloroethene	5	200	320 D	< 50	< 5	<250	<25/<25	<120	< 5	5	5	5	94	7	<10	11	19	27	27	32	41	29	7.8	26	18	26	21	29	28
Ethylbenzene	5	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	7	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	-	<10	< 12 ^a	340	< 5	<250	<25/<25	80 J	< 5	<1	1 ^b	<1	260 ^b	<5	410 ^b	<1	3 06 ^b	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	-	NA	<5	<50	<5	<250	<25	<120	< 5	1	1	1	<20	<5	<10	<1	1.04	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	5,600	2,200 D	1,900 D	4,500 D	4,900	2,200/2,500	3,200	4,700	4,500 D	4,000	2,800 D	18,000 D	1,900 D	3,100	3,000 D	4,400 D	1,100	270	330	310	150	<5	210	110	490	840	600	400
Vinyl Chloride	5	32	32	< 50	71	<250	83/<25	110 J	150	190	280	190 D	<20	210	150	160 D	120 D	530	610	1,300	1,100	1,700	55	1,300	1,600	1,100	960	1,000	1,300
Total Xylenes	5	<10	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<2 ^b	2	13	<20	38	<30	<3	1.49	<5	<5	<5	8.9	<5	12	<5	<5	<5	<5	<5	<5

Polychlorinated Biphenyls (PCBs) (Method 8080)	Site GW RAOs (ug/L)	Aug-95 (ug/L)**	Jul-97 (ug/L)*	Oct-97 (ug/L)	Dec-97 (ug/L)	Mar-98 (ug/L)*	Jun-98 (ug/L)*	Sept-98 (ug/L)*	Nov-98 (ug/L)*	Feb-99 (ug/L)	May-99 (ug/L)	Aug-99 (ug/L)	Nov-99 (ug/L)	Feb-00 (ug/L)
Aroclor-1016	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	0.1	NA	< 0.20	NA	< 0.3	< 0.3	<0.1<0.1	<0.2	< 0.2	< 0.2	<0.20	<0.20	<0.10	<0.20
Aroclor-1232	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	<1	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1	NA	< 0.10	NA	< 0.3	< 0.3	<0.1<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
B = Qualified as non-detect due to blank contamination
D, * = Analyzed with dilution. See laboratory reports for dilution factors
** Sample results reported represent the highest values obtained from the 5 hr and 29 hr samples
J = Estimated Concentration
NA = Not analyzed

Table 11
Monitoring Well Analytical Results Summary
November 2003

Volatile Organic Compounds	MW-2	MW-6	MW-7D	DUP (MW-7D)	MW-7S	MW-8	MW-14D	MW-14S	MW-15D	MW-15S	MW-19D	MW-20	EQ BLK	TRIP BLK
(Method 8260A)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	34	<10	20
Benzene	3.5	<1	5.6	5.6	<1	<1	<1	2.5	<1	<1	<1	2.2	<1	<1
Bromodichloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	<10	<10
Carbon Disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	5.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	530	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,3-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	6.1	5.1	<5	<5	<5	39	62	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	<5	2,500	2,100	9.9	65	<5	3,200	8,900	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	<5	11	12	<5	<5	<5	23	91	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	4,800	<5	<5
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methyl-2-pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	<10
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	3,100	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	6.6	<5	<5	2,700	1,400	13	<5	<5	<5	<5
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	<2	<2	860	820	<2	25	2.2	190	260	<2	600	<2	<2	<2
Total Xylenes	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	35,800	<5	<5

Table 12
Monitoring Well MW-2
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Aug 1989 (ug/L)	Feb 1990 (ug/L)	Feb 1992 (ug/L)	Feb 1992 (ug/L)	Aug 1995 (ug/L)	July 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Dec 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				<1000	<10000	<500	< 31 ^B	< 50	<5	4.55	8.9	<10	<10
Benzene				310J	<5000	NA	27	29	30	11	10	3.9	3.5
Bromodichloromethane				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Bromoform				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Bromomethane				<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5
2-Butanone				<1000	<10000 ^R	<500	15	< 50	<5	<1	<5	<5	<10
Carbon Tetrachloride				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Chlorobenzene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Chloroethane				<1000	<10000	NA	< 5	< 25	<1	<1	<5	<5	<5
Chloroform				<1000	<10000	NA	NA	NA	<1	<1	<5	<5	<5
Chloromethane				<500	<5000	NA	< 5	26	24	13	15	6.6	5.1
Isopropylbenzene (Cumene)				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Dibromochloromethane				220 ^J	<5000	NA	7	< 25	2	<1	<5	<5	<5
1,1-Dichloroethane				NA	NA	NA	NA	NA	NA	<1	<5	<5	<5
1,2-Dichloroethane				<500	<5000	NA	< 5	< 25	<1	<1	<5	<5	<5
1,1,1-Trichloroethane				2,700	2,200 ^D	370	< 5	< 25	<1	NA	NA	NA	NA
1,2-Dichloroethene (total)				NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
cis-1,2-Dichloroethene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
trans-1,2-Dichloroethene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
1,2-Dichloropropane	5	1500	<2500	<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
cis-1,3-Dichloropropene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
trans-1,3-Dichloropropene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Ethylbenzene	5	2,200	3,100	3,200	<2500 ^D	4,100	2,900	64	9	27	<5	<5	<5
Methylene chloride				<500	<5000	NA	< 10 ^B	< 25	7	2.32 ^B	<5	<5	<5
1,1,2,2-Tetrachloroethane				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Tetrachloroethene				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Toluene	5		220,000	93,000 ^E	100,000 ^D	99,000	17,000	58	2	53 ^D	<5	<5	<5
1,1,1-Trichloroethane				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
1,1,2-Trichloroethane				<500	<5000	NA	NA	NA	<1	<1	<5	<5	<5
Trichloroethene	5	<1000	340	<500	<5000	<500	< 5	< 25	<1	<1	<5	<5	<5
Trichlorofluoromethane				NA	NA	NA	NA	NA	<1	<1	<5	<5	<5
Vinyl chloride	5	<1000	<2500	<1000	<10000	180	9	< 25	<1	<1	<2	<2	<2
Xylenes (total)	5	13,000	18,000	16,000	13,000 ^D	21,000	12,000	90	8	82	<5	<5	<5

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Feb 1992 values are RI values.
MW-2 was dry during the November 2000 sampling event.
B = Qualified as non-detected due to blank contamination
D = Analyzed with dilution, see laboratory reports for dilution factor.
E = Concentration exceeded calibration range for instrument
J = Estimated Concentration
NA = Not analyzed
R = Rejected

Table 13
Monitoring Well MW-6
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Aug 1989 (ug/L)	Feb 1990 (ug/L)	Feb 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone					NA	< 10	< 10	< 5	< 5	< 5	< 10	< 10
Benzene					NA	< 5	< 5	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Bromoform					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Bromomethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
2-Butanone				10	NA	< 10	< 10	< 5	< 5	< 5	< 10	< 10
Carbon Tetrachloride					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Chlorobenzene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Chloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Chloroform					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
Chloromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Isopropylbenzene (Cumene)					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
Dibromochloromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
1,1-Dichloroethane					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
1,2-Dichloroethane					NA	NA	NA	NA	< 1	< 5	< 5	< 5
1,1,1-Trichloroethane					NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
1,2-Dichloroethene (total)				58	42	1,100	< 5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene					NA	NA	NA	NA	NA	< 5	< 5	< 5
trans-1,2-Dichloroethene	5	210	74		NA	NA	NA	< 1	< 1	< 5	< 5	< 5
cis-1,3-Dichloropropene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
trans-1,3-Dichloropropene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Ethylbenzene	5	< 1	< 1		NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
Methylene Chloride					NA	< 11 ^B	< 5	6	5.64 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Tetrachloroethene					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Toluene	5	< 1	< 1		NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5
1,1,1-Trichloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
1,1,2-Trichloroethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Trichloroethene	5	37	31	26	48	3,100	79	10	37	< 5	< 5	< 5
Trichlorofluoromethane					NA	NA	NA	< 1	< 1	< 5	< 5	< 5
Vinyl chloride	5	84	2	10	NA	6	8	< 1	48	< 2	< 2	< 2
Xylenes (total)	5	< 1	< 1		NA	< 5	< 5	< 1	< 1	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

NA = Not analyzed

Table 14
Monitoring Well MW-7S
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Aug 1989 (ug/L)	Feb 1990 (ug/L)	Feb 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				<17	NA	< 19 ^B	< 20	<5	<10	<5	<10	<10
Benzene				<5	NA	< 5	< 10	<1	9	<1	<1	<1
Bromodichloromethane				<5	NA	NA	NA	<1	<5	<5	<5	<5
Bromoform				<5	NA	NA	NA	<1	<5	<5	<5	<5
Bromomethane				<10	NA	NA	NA	<1	<5	<5	<5	<5
2-Butanone				<10 ^{UR}	<10	320	< 20	<5	<10	<5	<10	<10
Carbon Tetrachloride				<5	NA	NA	NA	<1	<5	<5	<5	<5
Chlorobenzene				<5	NA	NA	NA	<1	<5	<5	<5	<5
Chloroethane				<10	NA	NA	NA	<1	<5	<5	<5	<5
Chloroform				<5	NA	< 5	< 10	<1	<5	<5	<5	<5
Chloromethane				<10	NA	NA	NA	<1	<5	<5	<5	<5
Isopropylbenzene (Cumene)				NA	NA	< 5	< 10	<1	<5	<5	<5	<5
Dibromochloromethane				<5	NA	NA	NA	<1	<5	<5	<5	<5
1,1-Dichloroethane				<5	NA	< 5	< 10	<1	<5	<5	<5	<5
1,2-Dichloroethane				NA	NA	NA	NA	NA	<5	<5	<5	<5
1,1-Dichloroethene				<5	<10	< 5	< 10	<1	35	<5	<5	<5
1,2-Dichloroethene (total)				27	210	< 5	< 10	<1	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	NA	23	11	9.9
trans-1,2-Dichloroethene	5	69	8	NA	NA	NA	NA	<1	7	<5	<5	<5
1,2-Dichloropropane				<5	NA	NA	NA	<1	<5	<5	<5	<5
cis-1,3-Dichloropropene				<5	NA	NA	NA	<1	<5	<5	<5	<5
trans-1,3-Dichloropropene				<5	NA	NA	NA	<1	<5	<5	<5	<5
Ethylbenzene	5	<10	<1	<5	NA	< 11 ^B	< 10	1	<5	<5	<5	<5
Methylene chloride				<5	NA	NA	NA	<1	37 ^B	<5	<5	<5
1,1,2,2-Tetrachloroethane				<5	NA	NA	NA	<1	<5	<5	<5	<5
Tetrachloroethene				<5	NA	NA	NA	<1	<5	<5	<5	<5
Toluene				<5	NA	NA	NA	<1	7	<5	<5	<5
1,1,1-Trichloroethane	5	<10	<1	<5	NA	< 5	< 10	<1	<5	<5	<5	<5
1,1,2-Trichloroethane				<5	NA	NA	NA	<1	<5	<5	<5	<5
Trichloroethene	5	1,100	140	<5	NA	NA	NA	<1	<5	<5	<5	<5
Trichlorofluoromethane				30	220	30	160	8	900 ^D	7.6	7.5	6.6
Vinyl chloride	5	<10	<1	NA	<10	NA	NA	<1	<5	<5	<5	<5
Xylenes (total)	5	<10	<1	<5	NA	< 5	< 10	2	870 ^D	2.1	<2	<2
									2 ^J	<5	<5	<5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

Feb 1992 values are RI values.

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

R = Rejected

U = Non-detect

Table 15
Monitoring Well MW-7D
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Feb 1990 (ug/L)	Aug 1995 (ug/L)	July 1997 (ug/L)	Nov 3 1998 (ug/L)	Nov 24 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Nov 2000 DUP (ug/L)	Dec 2001 (ug/L)	Dec 2001 DUP (ug/L)	Dec 2002 (ug/L)	Dec 2002 DUP (ug/L)	Nov 2003 (ug/L)	Nov 2003 DUP (ug/L)
Acetone		<12	NA	<7700 ^a	<100	<10	<5	11 ^a	12 ^a	<5	<5	<10	<10	<10	<10
Benzene		<5	NA	<5	<50	<5	<1	2 ^J	<5	<5	<1	5.3	5.4	5.6	5.6
Bromodichloromethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Bromofrom		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone		<10 ^{RM}	<10	11,000	<100	<10	<5	<10	<10	<5	<5	<10	<10	<10	<10
Carbon Tetrachloride		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform		<5	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane		<10	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane		<5	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene		<5	<10	<5	<50	<5	22	2 ^J	10	7.9	7.4	<5	5.1	6.1	5.1
1,2-Dichloroethene (total)		3 ^J	NA	6	<50	43	NA	NA	NA	NA	NA	<5	<5	NA	NA
cis-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA	NA	3,800	4,100	2,900	2,800	2,500	2,100
trans-1,2-Dichloroethene	5	48	NA	NA	61	64	29	2 ^J	12	18	28	13	13	11	12
1,2-Dichloropropane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	5	<1	NA	<5	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Methylene chloride		<5	NA	<12 ^B	<50	<5	6	38 ^B	14 ^B	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene		<5	<10	NA	<50	<5	1	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	<1	<5	<5	<50	<5	2	<5	1 ^J	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethane		<5	NA	NA	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	940	25	8	<50	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane		NA	NA	NA	340,000	26,000	17,000 ^B	150	7,100 ^B	1,800	1,700	38	37	<5	<5
Vinyl chloride	5	<1	<10	30	<50	20	51	270 ^B	46	520	540	1,600	1,600	860	820
Xylenes (total)	5	<1	NA	<5	<50	<5	<1	<5	18	<5	10	<5	16	<5	<5

Notes:
 Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
 Feb 1992 values are RI values.
 B = Qualified as non-detected due to blank contamination
 D = Analyzed with dilution, see laboratory reports for dilution factor.
 J = Estimated Concentration
 NA = Not analyzed
 R = Rejected
 U = Non-detected

*Table 15
 Fig 12
 for 7D
 TCE Reported in 7D
 in figure
 1-1-1*

Table 16
Monitoring Well MW-8
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Aug 1989 (ug/L)	Feb 1990 (ug/L)	Feb 1992 (ug/L)	July 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone					< 140 ^B	< 100	< 5	10	< 5	< 10	< 10
Benzene	-				< 5	< 50	< 1	< 5	< 1	< 1	< 1
Bromodichloromethane					NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform					NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane					NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone	-				97	< 100	< 5	3 ^{JB}	< 5	< 10	< 10
Carbon Tetrachloride					NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene					NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroethane					NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform	-				< 5	< 50	< 1	< 5	< 5	< 5	< 5
Chloromethane					NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)	-				< 5	< 50	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane					NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane					< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane					NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane					< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)					21	< 50	NA	NA	< 5	< 5	NA
cis-1,2-Dichloroethene					NA	NA	NA	NA	86	50	65
trans-1,2-Dichloroethene	5	26	2		NA	NA	< 1	2 ^J	< 5	< 5	< 5
1,2-Dichloropropane					NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene					NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene					NA	NA	< 1	< 5	< 5	< 5	< 5
Ethylbenzene	5	< 1	< 1		< 5	< 50	< 1	< 5	< 5	< 5	< 5
Methylene chloride	-				< 12 ^B	< 50	3	16 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane					NA	NA	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene					NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene	5	< 1	< 1		< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane					NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane					NA	NA	< 1	< 5	< 5	< 5	< 5
Trichloroethene	5	150	17		28	640	18	31	75	< 5	< 5
Trichlorofluoromethane					NA	< 50	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5	4	< 1		< 5	< 50	26	20	4.4	15	25
Xylenes (total)	5				< 5	< 50	5	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

J = Estimated Concentration

NA = Not analyzed

Table 17
Monitoring Well MW-14S
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Feb 1992 (ug/L)	July 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				NA	< 13 ^B	< 200	< 5	< 10	< 5	< 10	< 10
Benzene				NA	< 5	< 100	< 1	3 ^J	< 1	< 1	2.5
Bromodichloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone		200		NA	< 10	< 200	< 5	< 10	< 5	< 10	< 10
Carbon Tetrachloride				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5
Chloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane				NA	< 5	< 100	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane			19	NA	NA	NA	NA	< 5	< 5	< 5	< 5
1,1-Dichloroethene			440	45	42	< 100	9	29	< 5	7.7	39
1,2-Dichloroethene (total)			840	NA	1,800	< 100	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	< 5	850	3,200
trans-1,2-Dichloroethene	5			NA	NA	NA	7	91	99	7	23
1,2-Dichloropropane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Ethylbenzene	5			< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5
Methylene chloride		11	2	NA	< 10 ^B	< 100	10	23 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene				< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	5			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Trichloroethene	5	1,200	450	920	2,900	1,400	190 ^B	4,200 ^B	110	470	2,700
Trichlorofluoromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5		290	170	58	170	51	100	2.4	28	190
Xylenes (total)	5			< 10	< 5	< 100	< 1	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

Table 18
Monitoring Well MW-14D
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Feb 1992 (ug/L)	July 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				NA	< 23 ^B	< 10	< 5	< 10	< 5	< 10	< 10
Benzene				NA	< 5	< 5	< 1	< 5	< 1	< 1	< 1
Bromodichloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone		10		< 10	17	< 10	< 5	5 ^J	< 5	< 10	< 10
Carbon Tetrachloride				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform				NA	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Chloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				NA	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane				NA	NA	NA	NA	< 5	< 5	< 5	< 5
1,1-Dichloroethene				< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)		15	3	< 10	< 5	< 5	< 1	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	< 5	< 5	< 5
trans-1,2-Dichloroethene	5			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,2-Dichloropropane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Ethylbenzene	5	1	1	< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Methylene chloride			0.7	NA	< 9 ^B	< 5	1	26 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene				< 10	NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene	5			< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Trichloroethene	5	28	5	1	< 5	< 5	2	< 5	< 5	< 5	< 5
Trichlorofluoromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5	20	29	13	40	< 5	< 1	< 5	< 2	< 2	2.2
Xylenes (total)	5	8		< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5

Notes:
 Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
 B = Qualified as non-detect due to blank contamination
 J = Estimated Concentration
 NA = Not analyzed

Table 19
Monitoring Well MW-15S
Groundwater Analytical Results

Volatle Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Feb 1992 (ug/L)	July 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				NA	< 17 ^B	< 10	< 5	13 ^B	< 5	< 10	< 10
Benzene				NA	< 5	< 5	< 1	< 5	< 1	< 1	< 1
Bromodichloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone				< 10	< 10	< 10	< 5	5 ^J	< 5	< 10	< 10
Carbon Tetrachloride				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform				NA	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Chloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				NA	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane				NA	< 5	< 5	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane				NA	NA	NA	NA	< 5	< 5	< 5	< 5
1,1-Dichloroethene				< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)		< 5		76	68	< 5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene				NA	NA	NA	NA	NA	< 5	< 5	< 5
trans-1,2-Dichloroethene	5			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,2-Dichloropropane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Ethylbenzene	5			< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
Methylene chloride				NA	< 10 ^B	< 5	1	22 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene				< 10	NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene	5			< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Trichloroethene	5	< 5	0.6	140	140	97	15	24	< 5	< 5	13
Trichlorofluoromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5			< 10	< 5	< 5	< 1	< 5	< 2	< 2	< 2
Xylenes (total)	5			< 10	< 5	< 5	< 1	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detected due to blank contamination

J = Estimated Concentration

NA = Not analyzed

Table 20
Monitoring Well MW-15D
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Feb 1992 (ug/L)	July 1992 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone				NA	< 1 ^B	< 20	< 5	7 ^J	< 5	< 10	< 10
Benzene				NA	NA	NA	< 1	1 ^J	< 1	1.1	< 1
Bromodichloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone			2	< 10	< 10	< 20	< 5	5 ^J	< 5	< 10	< 10
Carbon Tetrachloride				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene	5			< 10	< 5	< 10	< 1	< 5	< 5	< 5	< 5
Chloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform				NA	< 5	< 10	< 1	< 5	< 5	< 5	< 5
Chloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane			1	NA	< 5	< 10	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)		130		< 10	< 5	< 10	6	26	24	46	62
cis-1,2-Dichloroethene			56	33	29	< 10	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene				NA	NA	NA	NA	NA	2,000	3,700	8,900
1,2-Dichloropropane	5			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	5			26	6	< 10	5	< 5	< 5	< 5	< 5
Ethylbenzene	5			< 10	< 5	< 10	< 1	< 5	< 5	< 5	< 5
Methylene chloride				NA	< 9 ^B	< 10	1	23 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	5			< 10	< 5	< 10	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane				NA	< 5	< 10	< 1	< 5	< 5	< 5	< 5
Trichloroethene		600		NA	< 5	< 10	< 1	100	39	870	1,400
Trichlorofluoromethane				NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5		4	2	< 5	39	58	190 ^D	190	190	260
Xylenes (total)				NA	NA	NA	< 1	< 5	< 5	< 5	< 5

Notes:
 Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision
 B = Qualified as non-detected due to blank contamination
 D = Analyzed with dilution, see laboratory reports for dilution factor.
 J = Estimated Concentration
 NA = Not analyzed

Table 21
Monitoring Well MW-19D
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Mar 1993 (ug/L)	Aug 1995 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone			NA	< 10	< 100	< 5	< 10	< 5	< 10	< 10
Benzene			NA	< 5	< 50	< 1	< 5	< 1	< 1	< 1
Bromodichloromethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromoform			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Bromomethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
2-Butanone			NA	< 10	< 100	< 5	< 10	< 5	< 10	< 10
Carbon Tetrachloride			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chlorobenzene			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Chloroform			NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5
Chloromethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Isopropylbenzene (Cumene)			NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5
Dibromochloromethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethane			NA	< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1-Dichloroethene			< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,2-Dichloroethene (total)			< 20	< 5	< 50	NA	< 5	NA	NA	NA
cis-1,2-Dichloroethene			NA	NA	NA	NA	NA	< 5	< 5	< 5
trans-1,2-Dichloroethene	5		NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,2-Dichloropropane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Ethylbenzene	5		< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5
Methylene chloride			NA	< 8 ^B	< 50	5	15 ^B	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Tetrachloroethene			< 20	NA	NA	< 1	< 5	< 5	< 5	< 5
Toluene	5		< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Trichloroethene	5	< 10	2	< 5	< 50	< 1	< 5	< 5	< 5	< 5
Trichlorofluoromethane			NA	NA	NA	< 1	< 5	< 5	< 5	< 5
Vinyl chloride	5	6	410	830	1,100	1,500 ^D	1,300 ^D	1,200	660	600
Xylenes (total)	5		< 20	< 5	< 50	< 1	< 5	< 5	< 5	< 5

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

NA = Not analyzed

Table 22
Monitoring Well MW-20
Groundwater Analytical Results

Volatile Organic Compounds (Method 8260)	Site GW RAOs (ug/L)	Mar 1993 (ug/L)	Jul 1997 (ug/L)	Nov 1998 (ug/L)	Nov 1999 (ug/L)	Nov 2000 (ug/L)	Dec 2001 (ug/L)	Dec 2002 (ug/L)	Nov 2003 (ug/L)
Acetone		NA	< 10	< 10	<1000	10	5.6	<10	34
Benzene		NA	< 5	<5	<200	3 ^J	2.3	2	2.2
Bromodichloromethane		NA	NA	NA	<200	<5	<5	<5	<5
Bromoform		NA	NA	NA	<200	<5	<5	<5	<5
Bromomethane		NA	NA	NA	<200	<5	<5	<5	<5
2-Butanone		NA	< 10	<10	<1000	<10	<5	<10	14
Carbon Tetrachloride		NA	NA	NA	<200	<5	<5	<5	<5
Chlorobenzene		NA	NA	NA	<200	<5	<5	<5	<5
Chloroethane		NA	NA	NA	<200	<5	<5	<5	<5
Chloroform		NA	< 5	<5	<200	<5	<5	<5	<5
Chloromethane		NA	NA	NA	<200	<5	<5	<5	<5
Isopropylbenzene (Cumene)		NA	< 5	350	340	<1000	<5	350	530
Dibromochloromethane		NA	NA	NA	<200	<5	<5	<5	<5
1,1-Dichloroethane		NA	< 5	<5	<200	<5	<5	<5	<5
1,2-Dichloroethane		NA	NA	NA	NA	<5	<5	<5	<5
1,1-Dichloroethene		NA	< 5	<5	<200	<5	<5	<5	<5
1,2-Dichloroethene (total)		NA	< 5	NA	<200	NA	<5	<5	NA
cis-1,2-Dichloroethene		NA	< 5	NA	NA	NA	<5	<5	<5
trans-1,2-Dichloroethene	5	NA	NA	NA	<200	<5	<5	<5	<5
1,2-Dichloropropane		NA	NA	NA	<200	<5	<5	<5	<5
cis-1,3-Dichloropropene		NA	NA	NA	<200	<5	<5	<5	<5
trans-1,3-Dichloropropene		NA	NA	NA	<200	<5	<5	<5	<5
Ethylbenzene	5	3,100	480	3,300	4,800	11,000 ^B	5,000	2,300	4,800
Methylene chloride		NA	< 10 ^B	<5	440	12 ^B	<5	<5	<5
1,1,2,2-Tetrachloroethane		NA	NA	NA	<200	<5	<5	<5	<5
Tetrachloroethene		NA	NA	NA	<200	<5	<5	<5	<5
Toluene	5	790	14	2,500	5,800	4,700 ^B	1,500	440	3,100
1,1,1-Trichloroethane		NA	NA	NA	<200	<5	<5	<5	<5
1,1,2-Trichloroethane		NA	NA	NA	<200	<5	<5	<5	<5
Trichloroethene	5	NA	< 5	1,700	<200	<5	<5	<5	<5
Trichlorofluoromethane		NA	NA	NA	<200	<5	<5	<5	<5
Vinyl chloride	5	NA	< 5	<5	<200	<5	<2	<2	<2
Xylenes (total)	5	20,000	5,100	26,000	31,000	68,000 ^B	33,900	18,500	35,800

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives as defined by Table 2 of the March 1994 Record of Decision

B = Qualified as non-detect due to blank contamination

D = Analyzed with dilution, see laboratory reports for dilution factor.

J = Estimated Concentration

NA = Not analyzed

Table 23

**Pre-Carbon Influent Analytical Results
POTW Monthly Monitoring Summary**

Compound	Jan-30-03 (ug/L)	Feb-27-03 (ug/L)	Mar-30-03 (ug/L)	Apr-30-03 (ug/L)	May-31-03 (ug/L)	June-29-03 (ug/L)	July-29-03 (ug/L)	Sept-4-03 (ug/L)	Sept-30-03 (ug/L)	Oct-31-03 (ug/L)	Nov-29-03 (ug/L)	Dec-28-03 (ug/L)
Acetone	<10	<10	<10	<500	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	7.3	5.3	4.7	<50	5.5	6.1	5.4	5.7	6.8	5.0	6.1	5.7
2-Butanone	<10	<10	<10	<500	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	15	13	9.6	<50	12	9.7	11	9.3	15	9.0	18	14
cis-1,2-Dichloroethene	4,300	3,500	2,300	3,400	2,900	3,300	2,400	2,500	3,300	2,600	3,000	3,500
trans-1,2-Dichloroethene	30	14	10	<50	13	13	11	13	14	13	12	12
Ethylbenzene	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<50	<5	<5	<5	<5	<5	120	<5	<5
Trichloroethene	390	410	270	560	470	380	560	580	580	370	580	630
Vinyl Chloride	640	530	540	500	410	560	460	380	560	490	680	650
Total Xylenes	<5	<5	<5	<100	<5	<5	<5	<5	<5	15.1	<5	<5
Pre-Carb TOTAL VOCs	5,382.3	4,472.3	3,134.3	4,460	3,810.5	4,268.8	3,447.4	3,488.0	4,476	3,622	4,296.10	4,811.70

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

Primary and Secondary Carbon Units changed out on August 8, 2002

Third Carbon Placed online on November 29, 2002

Primary Carbon unit taken offline on June 12, 2003

Secondary and Third Units moved to Primary and Secondary positions respectively on June 12, 2003

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA= Not Analyzed

Table 24

**Primary Carbon Effluent Analytical Results
POTW Monthly Monitoring Summary**

Compound	Jan-30-03 (ug/L)	Feb-27-03 (ug/L)	Mar-30-03 (ug/L)	Apr-30-03 (ug/L)	May-31-03 (ug/L)	June-29-03 (ug/L)	Jul-29-03 (ug/L)	Sept-4-03 (ug/L)	Sept-30-03 (ug/L)	Oct-31-03 (ug/L)	Nov-29-03 (ug/L)	Dec-28-03 (ug/L)
Acetone	<10	<10	<10	<500	<10	<10	<10	<10	<10	340	<10	<10
Benzene	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	<10	<10	<10	<500	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<50	<5	<5	<5	<5	<5	5.7	<5	<5
Isopropylbenzene (Cumene)	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	5.3	6.1	<50	7.4	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	1,500	2,000	2,700	3,100	3,200	180	400	950	1500	8.4	6.9	15
trans-1,2-Dichloroethene	140	5.5	5.1	<50	14	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	12	34	28	<50	15	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	620	660	900	530	430	910	830	590	560	850	930	1,200
Total Xylenes	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5
Primary-Carb TOTAL VOCs	2,272	2,705	3,639.2	3,630	3,652	1,090	1,230	1,540	2,060	1,204	937	1,215

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

Primary and Secondary Carbon Units changed out on August 8, 2002

Third Carbon Placed online on November 29, 2002

Primary Carbon unit taken offline on June 12, 2003

Secondary and Third Units moved to Primary and Secondary positions respectively on June 12, 2003

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA= Not Analyzed

Table 25

**Secondary Carbon Effluent Analytical Results
POTW Monthly Monitoring Summary**

Compound	Jan-30-03 (ug/L)	Feb-27-03 (ug/L)	Mar-30-03 (ug/L)	Apr-30-03 (ug/L)	May-31-03 (ug/L)	June-29-03 Post Carb (ug/L)	Jul-29-03 Post Carb (ug/L)	Sept-4-03 Post Carb (ug/L)	Sept-30-03 Post Carb (ug/L)	Oct-31-03 Post Carb (ug/L)	Nov-29-03 Post Carb (ug/L)	Dec-28-03 Post Carb (ug/L)
Acetone	NA	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	NA	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	NA	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Chloromethane	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene (Cumene)	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<10	18	9.1	5.6	6.3	6.7	64	35	33
trans-1,2-Dichloroethene	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	NA	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	NA	690	910	740	590	650	490	750	770	7.5	7.5	7
Total Xylenes	NA	<5	<5	<20	<5	<5	<5	<5	<5	<5	<5	<5
Secondary TOTAL VOCs	NA	690	910	740	608	659.1	495.6	756.3	776.7	71.5	42.5	40

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

Primary and Secondary Carbon Units changed out on August 8, 2002

Third Carbon Placed online on November 28, 2002

Primary Carbon unit taken offline on June 12, 2003

Secondary and Third Units moved to Primary and Secondary positions respectively on June 12, 2003

Pre-Carbon sample results represent system influent.

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system

Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals

NS = Not Sampled

NA= Not Analyzed

Table 26

**Third Carbon Effluent Analytical Results
POTW Monthly Monitoring Summary**

Compound	Jan-30-03 Post Carb (ug/L)	Feb-27-03 Post Carb (ug/L)	Mar-30-03 Post Carb (ug/L)	Apr-30-03 Post Carb (ug/L)	May-31-03 Post Carb (ug/L)	June-29-03 Offline (ug/L)	Jul-29-03 Offline (ug/L)	Sept-4-03 Offline (ug/L)	Sept-30-03 Offline (ug/L)	Oct-31-03 Offline (ug/L)	Nov-29-03 Offline (ug/L)	Dec-28-03 Offline (ug/L)
Acetone	<10	<10	<10	<10	<10	NS	NS	NS	NS	NS	NS	NS
Benzene	<1	<1	<1	<1	<1	NS	NS	NS	NS	NS	NS	NS
2-Butanone	<10	<10	<10	<10	<10	NS	NS	NS	NS	NS	NS	NS
Chloroform	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Chloromethane	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	6.9	6.7	7.8	6.5	5.7	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Toluene	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	<2	<2	11	77	360	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	<5	<5	<5	<5	<5	NS	NS	NS	NS	NS	NS	NS
Third Carbon TOTAL VOCs	6.9	6.7	18.8	83.5	366	NA	NA	NA	NA	NA	NA	NA

Notes:

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

Primary and Secondary Carbon Units changed out on August 8, 2002

Third Carbon Placed online on November 28, 2002

Primary Carbon unit taken offline on June 12, 2003

Secondary and Third Units moved to Primary and Secondary positions respectively on June 12, 2003

Pre-Carbon sample results represent system influent

Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

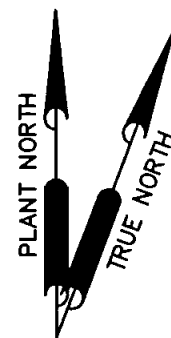
Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

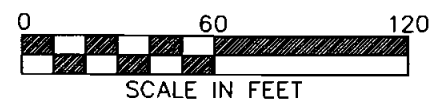
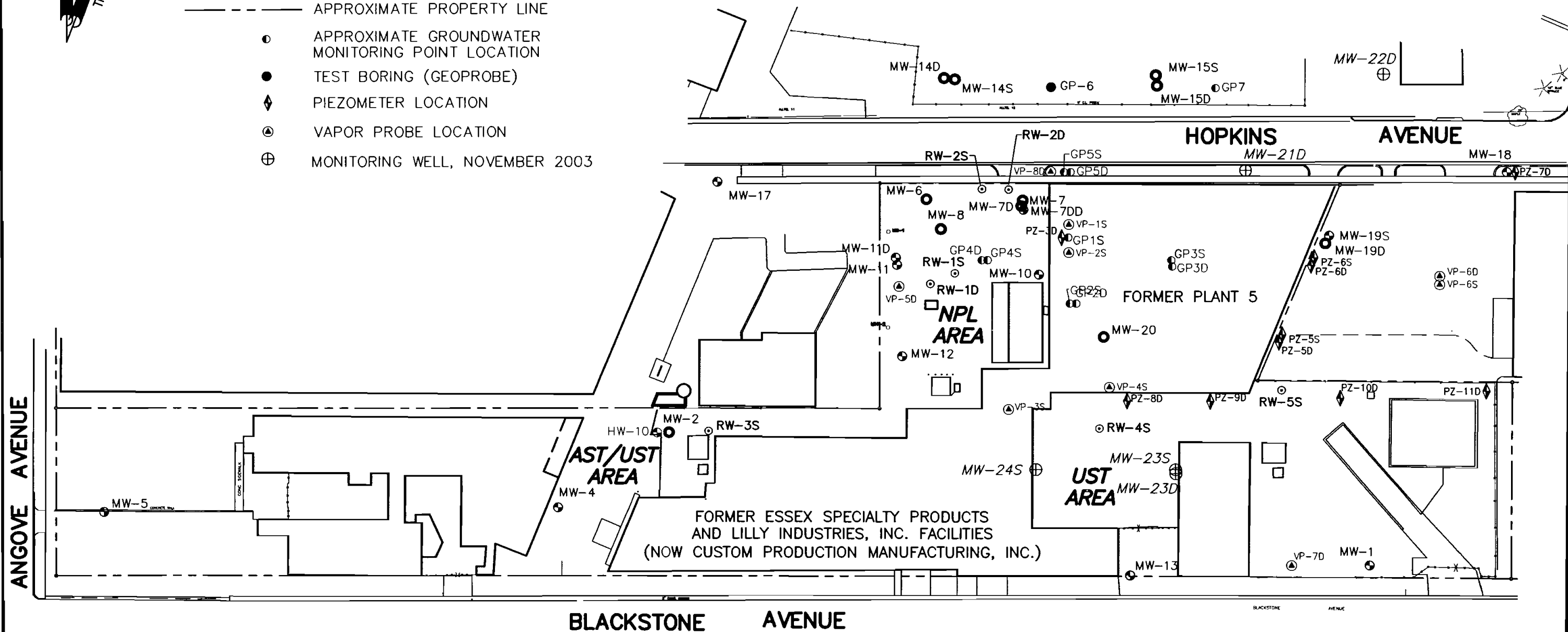
NA= Not Analyzed

FIGURES



LEGEND

- MONITORING WELL
- PMP MONITORING WELL
- RECOVERY WELL
- APPROXIMATE PROPERTY LINE
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- TEST BORING (GEOPROBE)
- ◆ PIEZOMETER LOCATION
- ⊙ VAPOR PROBE LOCATION
- ⊕ MONITORING WELL, NOVEMBER 2003



MAP REFERENCE AND CONTROL:

BASE MAP IS A COMPOSITE OF A DIGITIZED SEPIA MYLAR AND MULTIPLE FIELD SURVEYS DONE BY MICHAEL J. RODGERS AND ASSOCIATES, BEMUS POINT, NEW YORK. THE SEPIA MYLAR WAS AT A SCALE OF 1"=20', DATED APRIL 15, 1992. REVISION DATE MARCH 10, 1993. ADDITIONAL FIELD SURVEYS WERE DONE AUGUST, 1997, AND JANUARY 9, 1998.

VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929). HORIZONTAL COORDINATES PROVIDED FOR THE MONITORING WELLS AND THE PROPERTY CORNERS ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEYOR. N10000, E10000 IS A PK NAIL SET IN THE CONCRETE CURB/GUTTER AND IS PART OF THE ORIGINAL TRAVERSE. IRON STAKES WERE SET AT THE PROPERTY CORNERS.

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2003 PERFORMANCE MONITORING REPORT EXISTING SITE PLAN

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

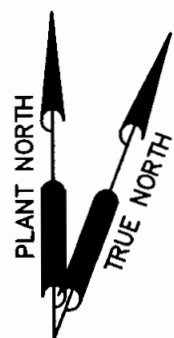
JOB NUMBER: 4157320

SCALE: AS SHOWN

FIGURE
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LEGEND

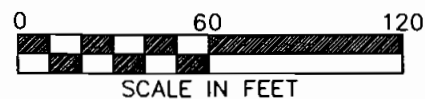
- MONITORING WELL
- PMP MONITORING WELL
- RECOVERY WELL
- APPROXIMATE PROPERTY LINE
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- ◆ PIEZOMETER LOCATION
- ⊙ VAPOR PROBE LOCATION

— INFERRED WATER LEVEL CONTOUR
(1272.85) GROUNDWATER ELEVATION (FEET, MSL)

ANGOVE AVENUE

MW-5
(1272.85)

BLACKSTONE AVENUE



MAP REFERENCE AND CONTROL:

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2003 PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - MARCH 17, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

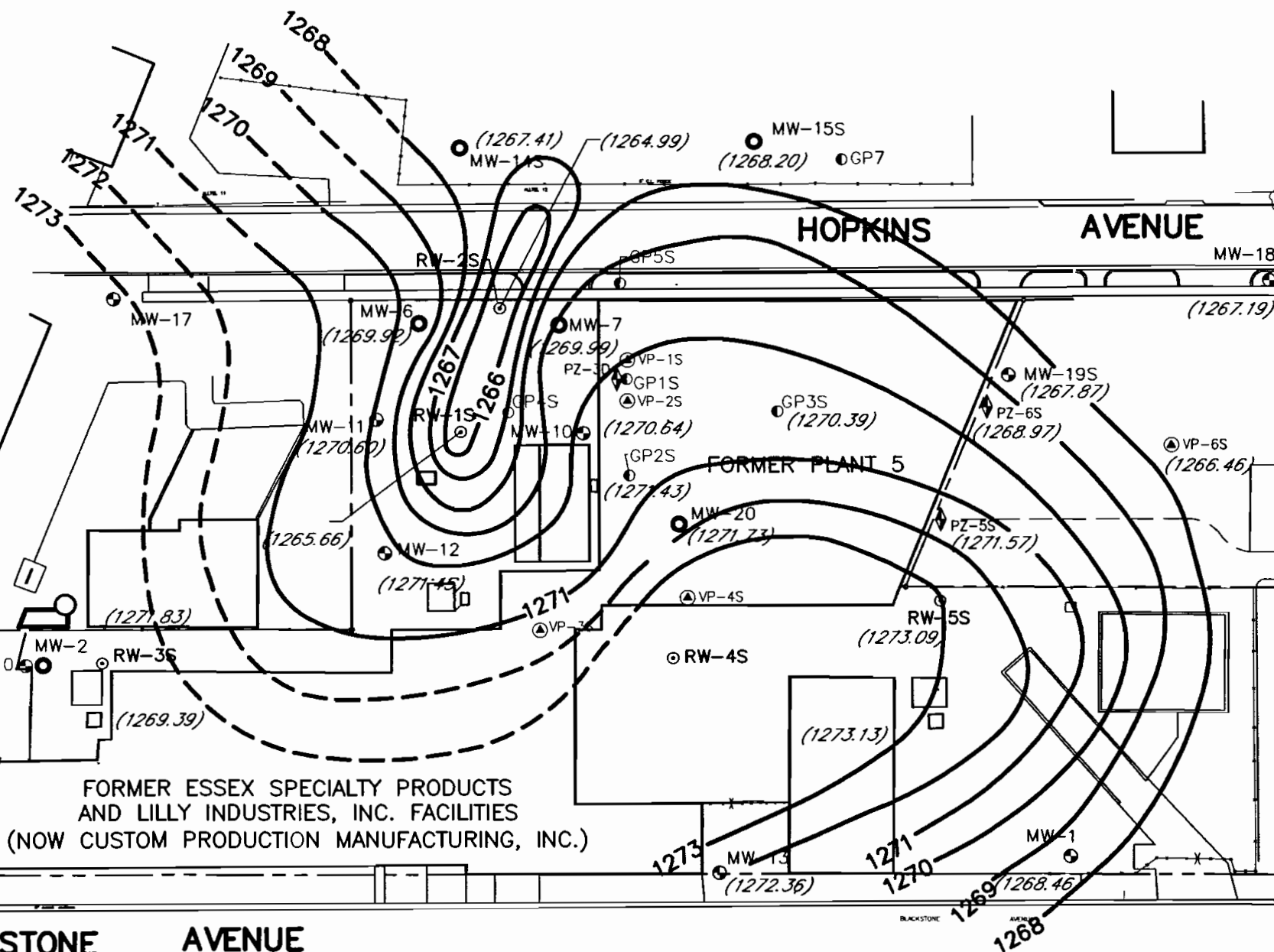
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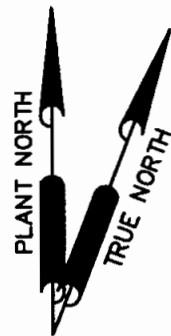
SCALE: AS SHOWN

FIGURE
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3

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LEGEND

- MONITORING WELL
- PMP MONITORING WELL
- RECOVERY WELL
- - - APPROXIMATE PROPERTY LINE
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- TEST BORING (GEOPROBE)
- ◆ PIEZOMETER LOCATION
- ⊙ VAPOR PROBE LOCATION

— INFERRED POTENTIOMETRIC CONTOUR
(1272.85) GROUNDWATER ELEVATION (FEET, MSL)

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.

ANGOVE AVENUE

HOPKINS AVENUE

BLACKSTONE AVENUE

FORMER ESSEX SPECIALTY PRODUCTS
AND LILLY INDUSTRIES, INC. FACILITIES
(NOW CUSTOM PRODUCTION MANUFACTURING, INC.)



MAP REFERENCE AND CONTROL:

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2003 PERFORMANCE MONITORING REPORT LOWER FINE SAND WATER BEARING ZONE - MARCH 17, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

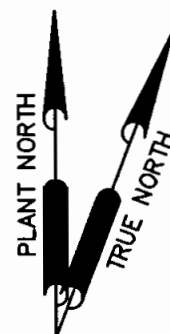
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SCALE: AS SHOWN

FIGURE
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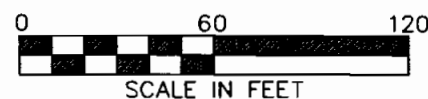
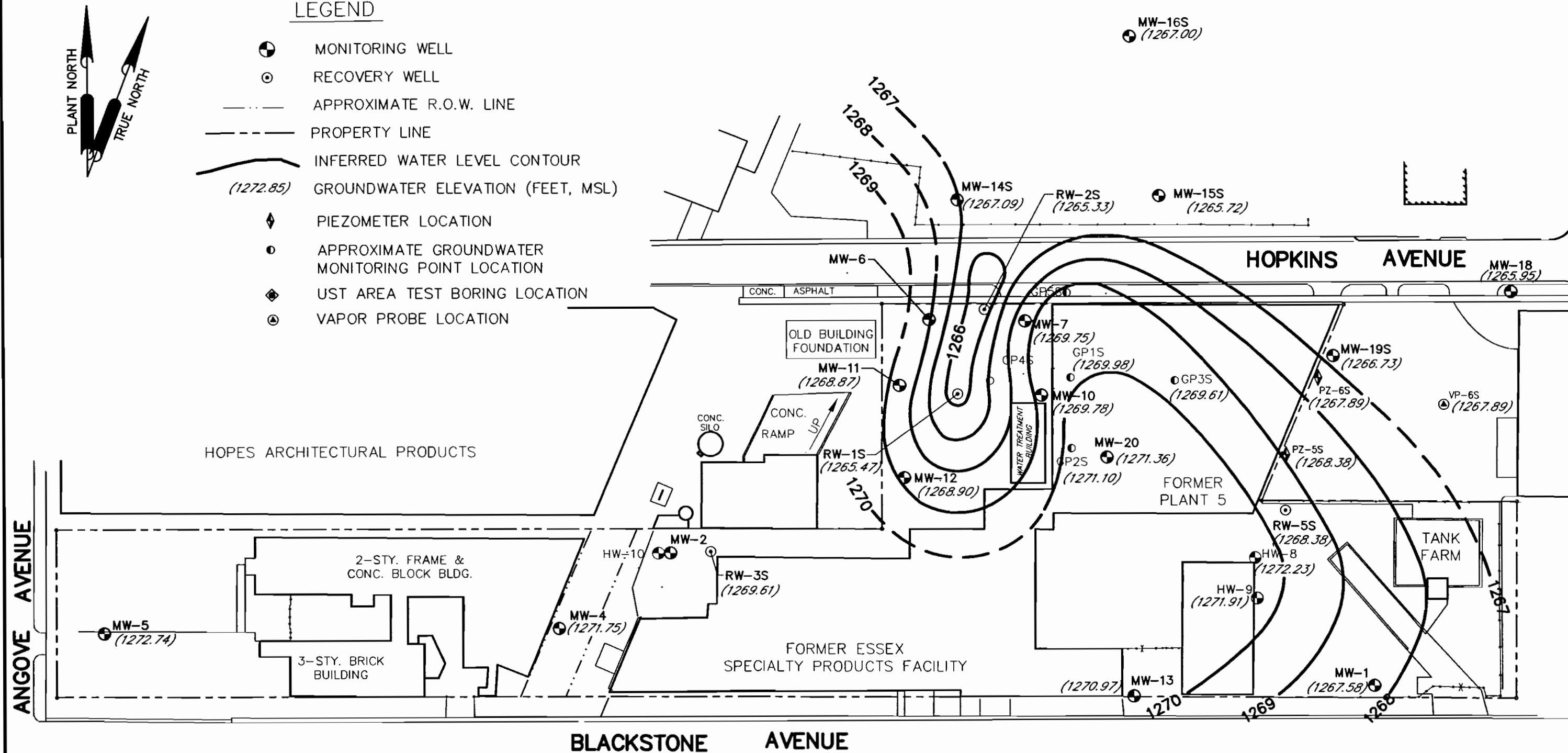
4

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LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED WATER LEVEL CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION



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2003 PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - MAY 22, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

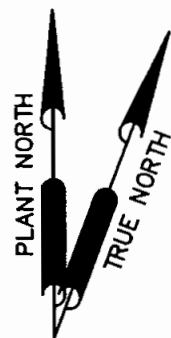
JOB NUMBER: 4157320

SCALE: AS SHOWN

FIGURE
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5

REV
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LEGEND

- MONITORING WELL
- RECOVERY WELL
- - - APPROXIMATE R.O.W. LINE
- - - PROPERTY LINE
- INFERRED POTENTIOMETRIC CONTOUR
- (1272.85) GROUNDWATER ELEVATION (FEET, MSL)
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- ◆ PIEZOMETER LOCATION
- ◆ UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.

ANGOVE AVENUE

HOPES ARCHITECTURAL PRODUCTS

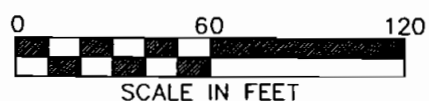
2-STY. FRAME &
CONC. BLOCK BLDG.

3-STY. BRICK
BUILDING

FORMER ESSEX
SPECIALTY PRODUCTS FACILITY

BLACKSTONE AVENUE

HOPKINS AVENUE



SCALE IN FEET

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2003 PERFORMANCE MONITORING REPORT LOWER FINE SAND WATER BEARING ZONE - MAY 22, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

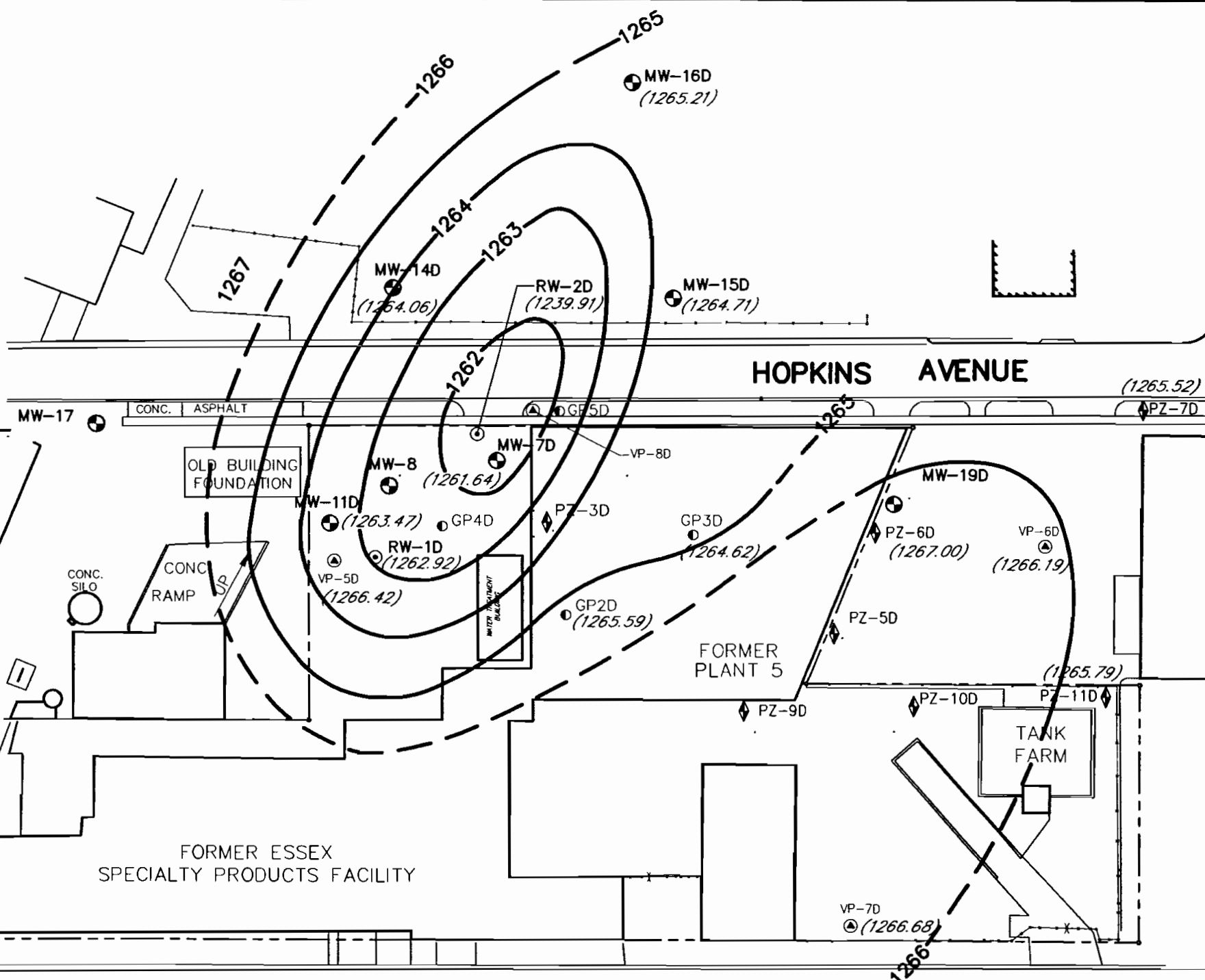
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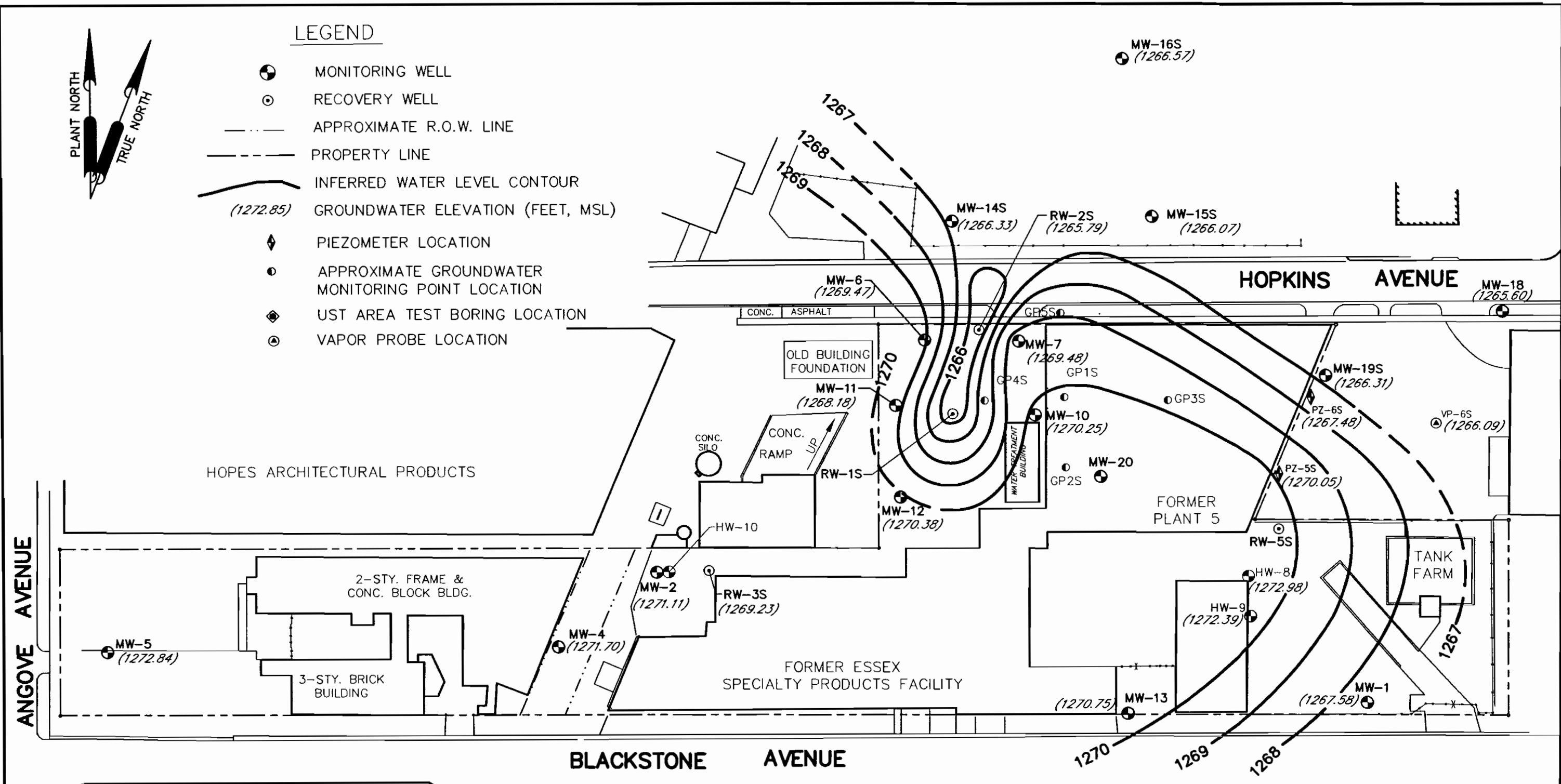
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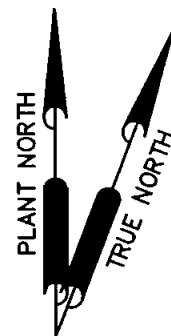
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PITTSBURGH, PENNSYLVANIA

2003 PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - SEPTEMBER 23, 2003

ESSEX/HOPE SITE		JAMESTOWN, NY	
CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 4157320	
SCALE: AS SHOWN	FIGURE NUMBER: 7	REV 0	



LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED POTENTIOMETRIC CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- PIEZOMETER LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.

ANGOVE AVENUE

HOPES ARCHITECTURAL PRODUCTS

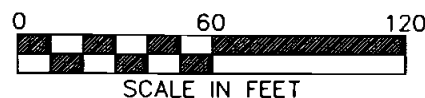
2-STY. FRAME &
CONC. BLOCK BLDG.

3-STY. BRICK
BUILDING

FORMER ESSEX
SPECIALTY PRODUCTS FACILITY

BLACKSTONE AVENUE

HOPKINS AVENUE



SCALE IN FEET

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2003 PERFORMANCE MONITORING REPORT LOWER FINE SAND WATER BEARING ZONE - SEPTEMBER 23, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

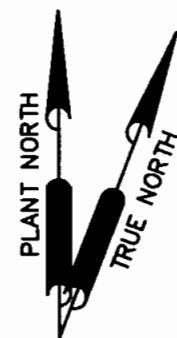
JOB NUMBER: 4157320

SCALE: AS SHOWN

FIGURE
NUMBER

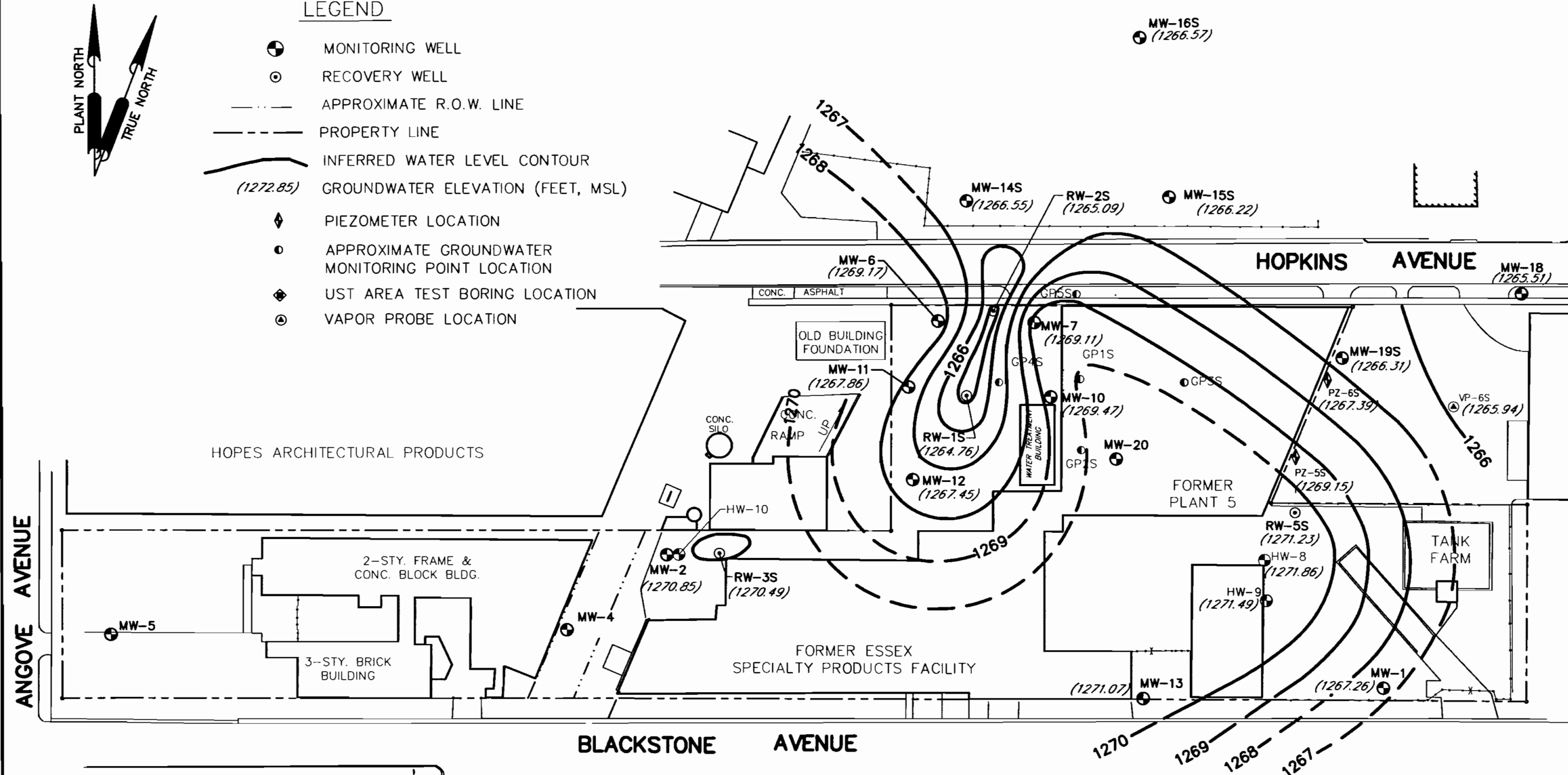
8

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LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE
- INFERRED WATER LEVEL CONTOUR
- GROUNDWATER ELEVATION (FEET, MSL)
- PIEZOMETER LOCATION
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- UST AREA TEST BORING LOCATION
- VAPOR PROBE LOCATION



0 60 120
SCALE IN FEET

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2003 PERFORMANCE MONITORING REPORT WATER TABLE CONTOUR MAP - NOVEMBER 07, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

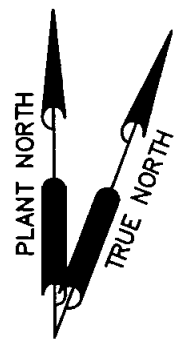
JOB NUMBER: 4157320

SCALE: AS SHOWN

FIGURE
NUMBER

9

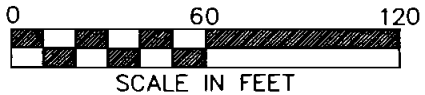
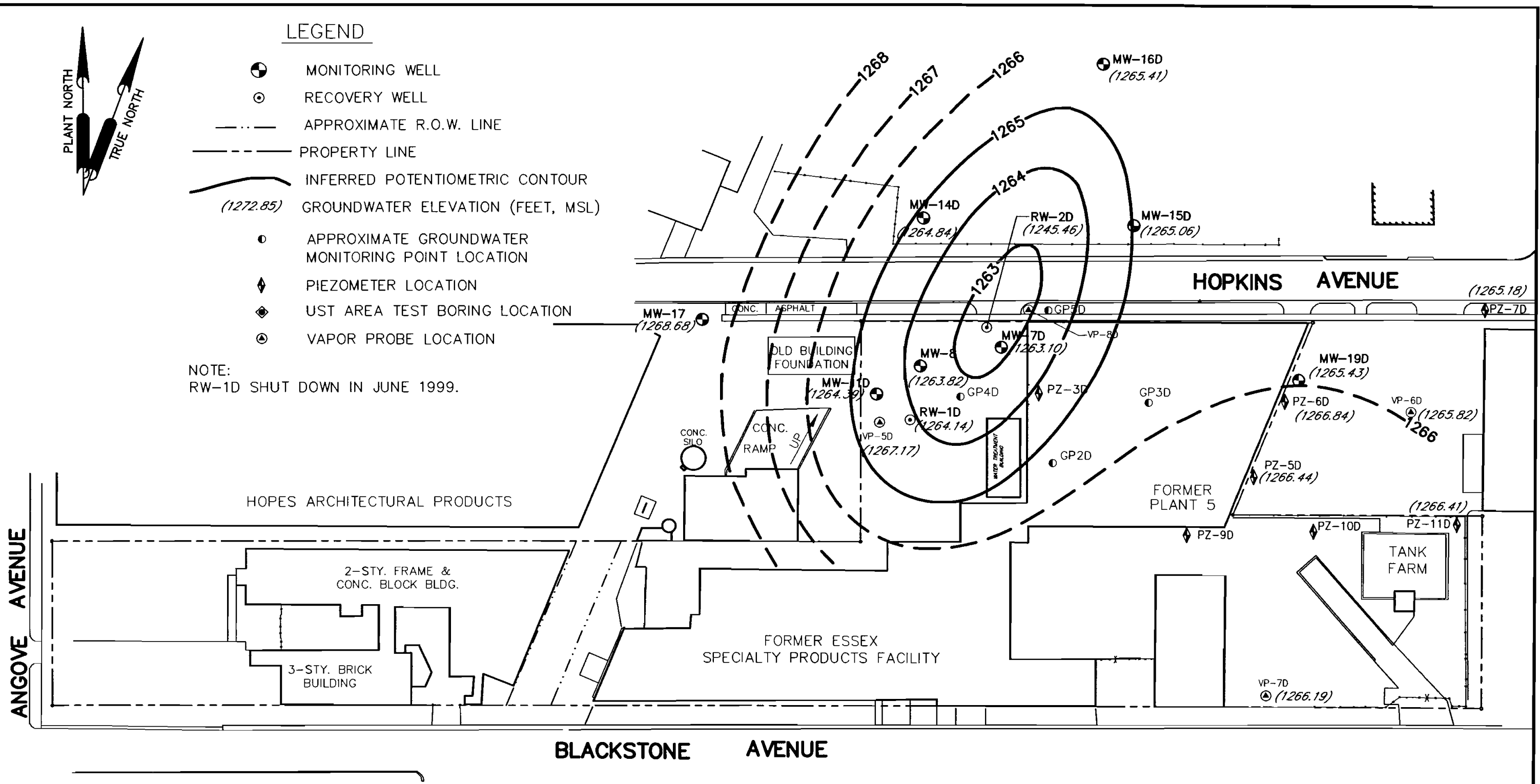
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LEGEND

- MONITORING WELL
- ⊙ RECOVERY WELL
- - - - - APPROXIMATE R.O.W. LINE
- - - - - PROPERTY LINE
- INFERRED POTENTIOMETRIC CONTOUR
- (1272.85) GROUNDWATER ELEVATION (FEET, MSL)
- APPROXIMATE GROUNDWATER MONITORING POINT LOCATION
- ◆ PIEZOMETER LOCATION
- ◆ UST AREA TEST BORING LOCATION
- ⊙ VAPOR PROBE LOCATION

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.



MAP REFERENCE AND CONTROL:
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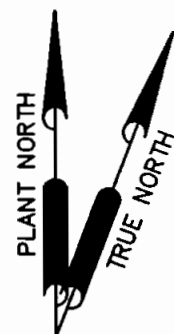
2003 PERFORMANCE MONITORING REPORT
LOWER FINE SAND WATER BEARING ZONE - NOVEMBER 07, 2003

ESSEX/HOPE SITE JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC. JOB NUMBER: 4157320

SCALE: AS SHOWN FIGURE NUMBER 10 REV 0

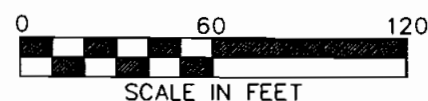
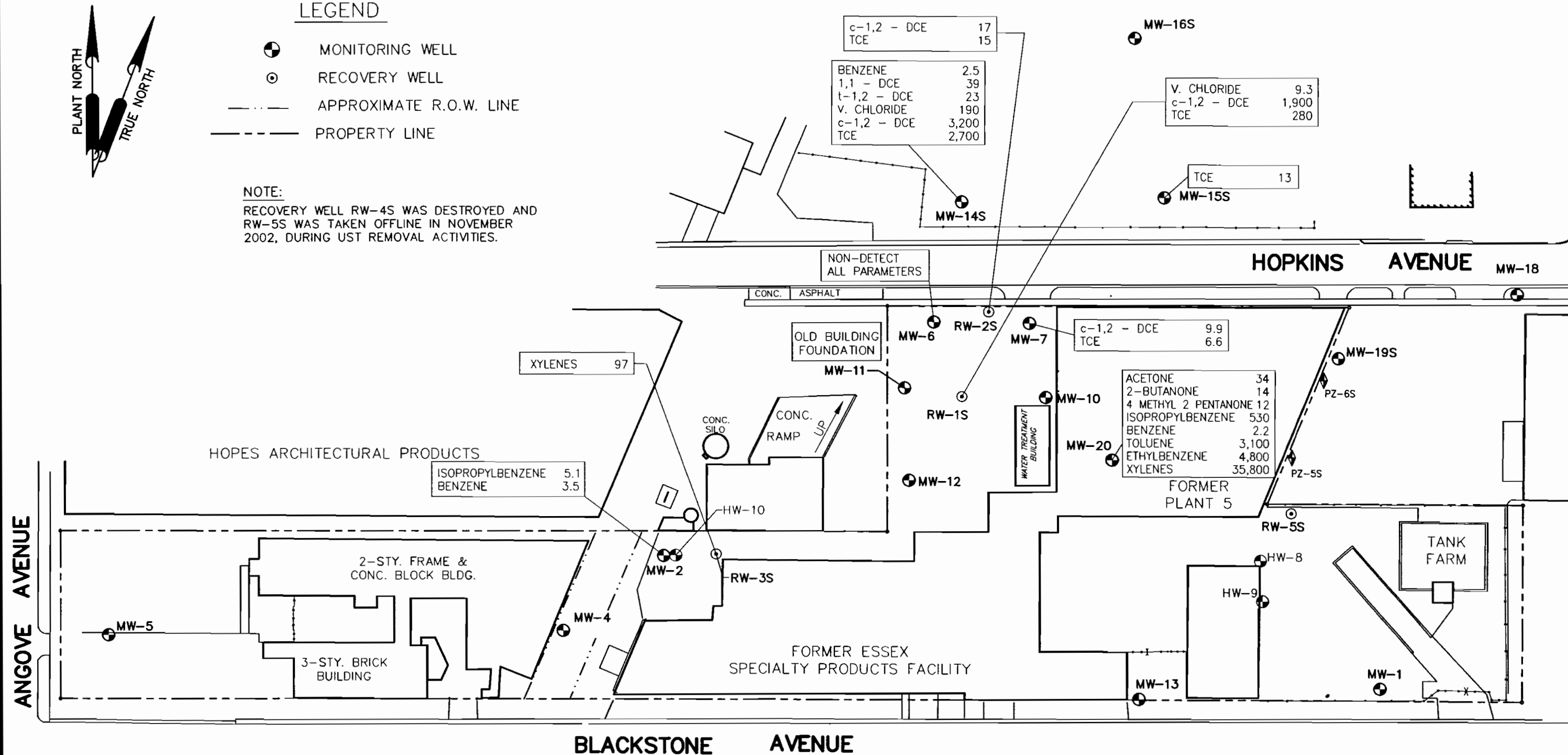
FILE: \ESSEX\HOP\PM\110703-0



LEGEND

- MONITORING WELL
- RECOVERY WELL
- APPROXIMATE R.O.W. LINE
- PROPERTY LINE

NOTE:
RECOVERY WELL RW-4S WAS DESTROYED AND
RW-5S WAS TAKEN OFFLINE IN NOVEMBER
2002, DURING UST REMOVAL ACTIVITIES.



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URS

PITTSBURGH, PENNSYLVANIA

2003 PERFORMANCE MONITORING REPORT SHALLOW WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA NOVEMBER 07, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

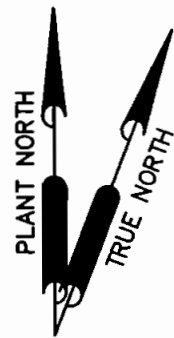
JOB NUMBER: 4157320

SCALE: AS SHOWN

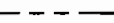
FIGURE
NUMBER

11

REV
0



LEGEND

-  MONITORING WELL
-  RECOVERY WELL
-  APPROXIMATE R.O.W. LINE
-  PROPERTY LINE

NOTE:
RW-1D SHUT DOWN IN JUNE 1999.

ANGOVE AVENUE

HOPES ARCHITECTURAL PRODUCTS

2-STY. FRAME &
CONC. BLOCK BLDG.

3-STY. BRICK
BUILDING

FORMER ESSEX
SPECIALTY PRODUCTS FACILITY

BLACKSTONE AVENUE

OLD BUILDING
FOUNDATION

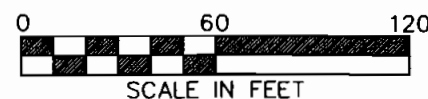
CONC.
SILO

CONC.
RAMP

WATER TREATMENT
BUILDING

FORMER
PLANT 5

TANK
FARM



SCALE IN FEET

MAP REFERENCE AND CONTROL:

BASE MAP IS A COMPOSITE OF A DIGITIZED SEPIA MYLAR AND MULTIPLE FIELD SURVEYS DONE BY MICHAEL J. RODGERS AND ASSOCIATES, BEMUS POINT, NEW YORK. THE SEPIA MYLAR WAS AT A SCALE OF 1"=20', DATED APRIL 15, 1992, REVISION DATE MARCH 10, 1993. ADDITIONAL FIELD SURVEYS WERE DONE AUGUST, 1997, AND JANUARY 9, 1998.

VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929). HORIZONTAL COORDINATES PROVIDED FOR THE MONITORING WELLS AND THE PROPERTY CORNERS ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEYOR. N10000, E10000 IS A PK NAIL SET IN THE CONCRETE CURB/GUTTER AND IS PART OF THE ORIGINAL TRAVERSE. IRON STAKES WERE SET AT THE PROPERTY CORNERS.

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PITTSBURGH, PENNSYLVANIA

2003 PERFORMANCE MONITORING REPORT LOWER FINE SAND WATER BEARING ZONE GROUNDWATER ANALYTICAL DATA NOVEMBER 07, 2003

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JOB NUMBER: 4157320

SCALE: AS SHOWN

FIGURE
NUMBER

12

REV
0

MW-16D

V. CHLORIDE 2.2

V. CHLORIDE 25
c-1,2 - DCE 65

V. CHLORIDE 1,300
1,1 - DCE 19
t-1,2 - DCE 28
TCE 400
BENZENE 8.3
c-1,2 - DCE 3,900

MW-15D

V. CHLORIDE 260
1,1 - DCE 62
t-1,2 - DCE 91
TCE 1,400
c-1,2 - DCE 8,900

HOPKINS AVENUE

MW-17

CONC. ASPHALT

RW-2D

MW-8

MW-7D

MW-11D

RW-1D

c-1,2 - DCE 40
1,1 - DCE 13
TCE 39

BENZENE 5.6
V. CHLORIDE 860
1,1 - DCE 6.1
t-1,2 - DCE 11
TCE 38
c-1,2 - DCE 2,500

MW-19D

V. CHLORIDE

VP-7D

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1

WATER LEVEL DATA

Groundwater Extraction System Monitoring Data
2003 Water Levels
February through May 2003
Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	February 6, 2003		March 17, 2003		May 22, 2003	
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	Depth to Water (ft toc)	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48	Shallow WBZ	12.79	1267.69	12.02	1268.46	12.90	1267.58
MW-2	9837.1531	9959.6857	1279.87	Shallow WBZ	8.44	1271.43	NA	NA	NA	NA
MW-4	9792.3277	9900.7631	1281.02	Shallow WBZ	NA	NA	8.75	1272.27	9.27	1271.75
MW-5	9789.6222	9631.761	1280.82	Shallow WBZ	8.04	1272.78	7.97	1272.85	8.08	1272.74
MW-6*	9977.1197	10118.8762	1277.98	Shallow WBZ	8.15	1269.83	8.06	1269.92	NA	NA
MW-7*	9976.6467	10175.6797	1277.73	Shallow WBZ	8.51	1269.22	7.74	1269.99	7.98	1269.75
MW-10	9932.4702	10185.7078	1277.94	Shallow WBZ	NA	NA	7.30	1270.64	8.16	1269.78
MW-11*	9937.9912	10101.7016	1277.75	Shallow WBZ	NA	NA	7.15	1270.60	8.88	1268.87
MW-12	9883.0874	10104.9278	1278.18	Shallow WBZ	7.88	1270.30	6.73	1271.45	9.28	1268.9
MW-13	9752.0619	10240.2934	1278.12	Shallow WBZ	8.59	1269.53	5.76	1272.36	7.15	1270.97
MW-14S	10048.7753	10135.5198	1280.25	Shallow WBZ	13.49	1266.76	12.84	1267.41	13.16	1267.09
MW-15S	10051.8272	10254.4862	1279.55	Shallow WBZ	12.41	1267.14	11.35	1268.20	13.83	1265.72
MW-16S	10146.7788	10236.8582	1279.32	Shallow WBZ	12.04	1267.28	11.14	1268.18	12.32	1267
MW-18	9994	10465	1275.59	Shallow WBZ	9.71	1265.88	8.40	1267.19	9.64	1265.95
MW-19S	9956.1454	10358.207	1276.82	Shallow WBZ	10.09	1266.73	8.95	1267.87	10.09	1266.73
MW-20	9895.0082	10224.2128	1278.64	Shallow WBZ	6.63	1272.01	6.91	1271.73	7.28	1271.36
HW-1	9874.8053	10079.0259	1281.91	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-2	9977.6477	10079.7882	1281.13	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-3	9866.163	9957.6007	1283.24	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-7	9837.3164	10293.8428	1277.55	Shallow WBZ	Destroyed	NA	Destroyed	NA	Destroyed	NA
HW-8	9834.664	10312.0885	1277.81	Shallow WBZ	NA	NA	NA	NA	5.58	1272.23
HW-9	9810.5264	10313.3873	1280.78	Shallow WBZ	8.37	1272.41	7.65	1273.13	8.87	1271.91
HW-10	9837.2976	9966.7406	1279.55	Shallow WBZ	NA	NA	7.72	1271.83	8.55	1271.00
SP-10	9815.1648	9977.9909	1279.03	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-11	9839.7566	9977.9072	1279.23	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-12	9833.1836	9958.7423	1279.68	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-13	9819.5009	9958.5764	1279.87	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-14	9807.2232	9967.0477	1279.39	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-15	9840.6722	10209.4525	1278.65	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-16	9840.3119	10250.4484	1277.84	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-17	9845.107	10287.9591	1277.56	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-18	9855.8421	10323.265	1277.4	Shallow WBZ	NA	NA	NA	NA	NA	NA
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA	NA	NA	NA	NA
RW-1S	9932.8951	10135.8706	1276.06	Shallow WBZ	10.21	1265.85	10.40	1265.66	10.59	1265.47
RW-2S*	9983.3801	10151.6403	1276.59	Shallow WBZ	6.75	1269.84	11.60	1264.99	11.26	1265.33
RW-3S	9838.0594	9990.4502	1278.29	Shallow WBZ	8.37	1269.92	8.90	1269.39	8.68	1269.61
RW-4S	9839.8053	10221.6766	1277.34	Shallow WBZ	Destroyed	NA	Destroyed	NA	NA	NA
RW-5S	9963.2271	10330.2425	1277.43	Shallow WBZ	4.99	1272.44	4.34	1273.09		1277.43
MW-7D*	9973.2593	10174.8524	1277.8	Lower Fine Sand WBZ	15.25	1262.55	14.31	1263.49	16.16	1261.64
MW-8	9959.6089	10127.6898	1277.97	Lower Fine Sand WBZ	13.00	1264.97	NA	NA	11.12	1266.85
MW-11D	9942.3792	10101.1482	1277.85	Lower Fine Sand WBZ	No Access	NA	12.93	1264.92	14.38	1263.47
MW-14D	10049.5051	10129.1897	1280.01	Lower Fine Sand WBZ	15.64	1264.37	14.74	1265.27	15.95	1264.06
MW-15D	10045.5611	10255.205	1279.46	Lower Fine Sand WBZ	14.70	1264.76	13.86	1265.60	14.75	1264.71
MW-16D	10143.9497	10236.6005	1279.05	Lower Fine Sand WBZ	13.88	1265.17	13.21	1265.84	13.84	1265.21
MW-17	9987.6315	9995.5207	1278.7	Lower Fine Sand WBZ	10.80	1267.90	10.84	1267.86	NA	NA
MW-19D	9951.569	10355.9748	1276.21	Lower Fine Sand WBZ	10.50	1265.71	10.34	1265.87	NA	NA
RW-1D	9926.5997	10121.3968	1276.64	Lower Fine Sand WBZ	11.50	1265.14	11.89	1264.75	13.72	1262.92
RW-2D	9983.0619	10167.3168	1276.46	Lower Fine Sand WBZ	12.71	1263.75	28.15	1248.31	36.55	1239.91
MW-7DD*	9970.8547	10176.2698	1277.74	Glacial Till	NA	NA	NA	NA	2.16	1275.58
GP-1S	9954.39*	10203.02*	1278.98	Shallow WBZ	NA	NA	NA	NA	9.00	1269.98
GP-2S	9914.89*	10201.04*	1278.63	Shallow WBZ	6.70	1271.93	7.20	1271.43	7.53	1271.1
GP-2D	9914.91*	10207.84*	1278.7	Lower Fine Sand WBZ	13.02	1265.68	12.05	1266.65	13.11	1265.59
GP-3S	9941.13*	10264.03*	1278.87	Shallow WBZ	8.45	1270.42	8.48	1270.39	9.26	1269.61
GP-3D	9937.38*	10264.53*	1278.77	Lower Fine Sand WBZ	14.00	1264.77	13.00	1265.77	14.15	1264.62
GP-4S	9940.86*	10154.97*	1278.06	Shallow WBZ	NA	NA	NA	NA	NA	NA
GP-4D	9940.85*	10151.57*	1278.08	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
GP-5S	9993.54*	10200.34*	1277.44	Shallow WBZ	NA	NA	NA	NA	NA	NA
GP-5D	9993.55*	10290.21*	1277.37	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
PZ-1S			1277.97	Shallow WBZ	NA	NA	NA	NA	NA	NA
PZ-1D			1277.75	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
PZ-2D			1277.86	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
PZ-3D			1279.02	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
PZ-4D			1278.94	Lower Fine Sand WBZ	NA	NA	NA	NA	NA	NA
PZ-5S			1276.56	Shallow WBZ	5.74	1270.82	4.99	1271.57	8.18	1268.38
PZ-5D			1276.52	Lower Fine Sand WBZ	10.49	1266.03	9.12	1267.40	NA	NA
PZ-6S			1276.77	Shallow WBZ	8.40	1268.37	7.80	1268.97		1276.77
PZ-6D			1276.57	Lower Fine Sand WBZ	10.13	1266.44	13.2	1263.37	9.57	1267.00
PZ-7D			1275.83	Lower Fine Sand WBZ	10.48	1265.35	9.74	1266.09	10.31	1265.52
PZ-8D			1278.63	Lower Fine Sand WBZ	Destroyed	NA	Destroyed	NA	Destroyed	NA
PZ-9D			1278.04	Lower Fine Sand WBZ	No Access	NA	NA	NA	NA	NA
PZ-10D			1277.58	Lower Fine Sand WBZ	No Access	NA	NA	NA	NA	NA
PZ-11D			1278.7	Lower Fine Sand WBZ	10.60	1266.10	10.60	1266.10	10.91	1265.79
TW-01			1279.1	Shallow WBZ	Destroyed	NA	NA	NA	NA	NA
VP-5D			1278.2	Lower Fine Sand WBZ	No Access	NA	11.22	1266.98	11.78	1266.42
VP-6S			1276.62	Upper Gravel of LFSWBZ	No Access	NA	9.16	1267.46	10.26	1266.36
VP-6D			1276.71	Lower Fine Sand WBZ	No Access	NA	9.59	1267.12	10.52	1266.19
VP-7D			1278.87	Lower Fine Sand WBZ	12.54	1266.33	11.41	1267.46	12.19	1266.68
VP-8D			1277.37	Lower Fine Sand WBZ	10.45	1266.92	10.55	1266.82	NA	NA
Comments					1928 Days of System Operation		1967 Days of System Operation		2033 Days of System Operation	
WBZ - Water Bearing Zone										
* = Estimated Coordinate										
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000										
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.										
RW-4S and RW-5S taken offline in October 2002 for UST Removal.										
Wells RW-4S, TW-01, PZ-8D and HW-7 destroyed during UST removal operation										

Groundwater Extraction System Monitoring Data
2003 Water Levels
September and November 2003
Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	September 23, 2003		November 7, 2003	
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48	Shallow WBZ	12.90	1267.58	13.22	1267.26
MW-2	9837.1531	9959.6857	1279.87	Shallow WBZ	Dry	Dry	9.02	1270.85
MW-4	9792.3277	9900.7631	1281.02	Shallow WBZ	9.32	1271.70	NA	NA
MW-5	9789.6222	9631.761	1280.82	Shallow WBZ	7.98	1272.84	NA	NA
MW-6*	9977.1197	10118.8762	1277.98	Shallow WBZ	8.51	1269.47	8.81	1269.17
MW-7*	9976.6467	10175.6797	1277.73	Shallow WBZ	8.25	1269.48	8.62	1269.11
MW-10	9932.4702	10185.7078	1277.94	Shallow WBZ	7.69	1270.25	8.47	1269.47
MW-11*	9937.9912	10101.7016	1277.75	Shallow WBZ	9.57	1268.18	9.89	1267.86
MW-12	9883.0874	10104.9278	1278.18	Shallow WBZ	7.80	1270.38	10.73	1267.45
MW-13	9752.0619	10240.2934	1278.12	Shallow WBZ	7.37	1270.75	7.05	1271.07
MW-14S	10048.7753	10135.5198	1280.25	Shallow WBZ	13.92	1266.33	13.70	1266.55
MW-15S	10051.8272	10254.4862	1279.55	Shallow WBZ	13.48	1266.07	13.33	1266.22
MW-16S	10146.7788	10236.8582	1279.32	Shallow WBZ	12.75	1266.57	12.75	1266.57
MW-18	9994	10465	1275.59	Shallow WBZ	9.99	1265.60	10.08	1265.51
MW-19S	9956.1454	10358.207	1276.82	Shallow WBZ	10.51	1266.31	10.51	1266.31
MW-20	9895.0082	10224.2128	1278.64	Shallow WBZ	NA	NA	No Access	NA
HW-1	9874.8053	10079.0259	1281.91	Shallow WBZ	NA	NA	NA	NA
HW-2	9977.8477	10079.7882	1281.13	Shallow WBZ	NA	NA	NA	NA
HW-3	9866.163	9957.6007	1283.24	Shallow WBZ	NA	NA	NA	NA
HW-7	9837.3164	10293.8428	1277.55	Shallow WBZ	Destroyed	NA	Destroyed	NA
HW-8	9834.664	10312.0885	1277.81	Shallow WBZ	4.83	1272.98	5.95	1271.86
HW-9	9810.5264	10313.3873	1280.78	Shallow WBZ	8.39	1272.39	9.29	1271.49
HW-10	9837.2976	9966.7406	1279.55	Shallow WBZ	8.44	1271.11	NA	NA
SP-10	9815.1646	9977.9909	1279.03	Shallow WBZ	NA	NA	NA	NA
SP-11	9839.7566	9977.9072	1279.23	Shallow WBZ	NA	NA	NA	NA
SP-12	9833.1836	9958.7423	1279.68	Shallow WBZ	NA	NA	NA	NA
SP-13	9819.5009	9958.5764	1279.87	Shallow WBZ	NA	NA	NA	NA
SP-14	9807.2232	9967.0477	1279.39	Shallow WBZ	NA	NA	NA	NA
SP-15	9840.6722	10209.4525	1278.65	Shallow WBZ	NA	NA	NA	NA
SP-16	9840.3119	10250.4484	1277.84	Shallow WBZ	NA	NA	NA	NA
SP-17	9845.107	10287.9591	1277.56	Shallow WBZ	NA	NA	NA	NA
SP-18	9855.8421	10323.265	1277.4	Shallow WBZ	NA	NA	NA	NA
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA	NA	NA
RW-1S	9932.8951	10135.8706	1276.06	Shallow WBZ	10.52	1265.54	11.30	1264.76
RW-2S*	9983.3801	10151.6403	1276.59	Shallow WBZ	10.80	1265.79	11.50	1265.09
RW-3S	9838.0594	9990.4502	1278.29	Shallow WBZ	9.06	1269.23	7.80	1270.49
RW-4S	9839.8053	10221.6766	1277.34	Shallow WBZ	Destroyed	NA	Destroyed	NA
RW-5S	9863.2271	10330.2425	1277.43	Shallow WBZ	NA	NA	6.20	1271.23
MW-7D*	9973.2593	10174.8524	1277.8	Lower Fine Sand WBZ	15.75	1262.05	14.70	1263.10
MW-8	9959.6089	10127.6898	1277.97	Lower Fine Sand WBZ	15.03	1262.94	14.15	1263.82
MW-11D	9942.3792	10101.1482	1277.85	Lower Fine Sand WBZ	13.91	1263.94	13.46	1264.39
MW-14D	10049.5051	10129.1897	1280.01	Lower Fine Sand WBZ	15.88	1264.13	15.17	1264.84
MW-15D	10045.5611	10255.205	1279.46	Lower Fine Sand WBZ	14.99	1264.47	14.40	1265.06
MW-16D	10143.9497	10236.6005	1279.05	Lower Fine Sand WBZ	14.22	1264.83	13.64	1265.41
MW-17	9987.6315	9995.5207	1278.7	Lower Fine Sand WBZ	10.15	1268.55	10.02	1268.68
MW-19D	9951.569	10355.9748	1276.21	Lower Fine Sand WBZ	10.33	1265.88	10.78	1265.43
RW-1D	9926.5997	10121.3968	1276.64	Lower Fine Sand WBZ	13.39	1263.25	12.50	1264.14
RW-2D	9983.0619	10167.3168	1276.46	Lower Fine Sand WBZ	35.71	1240.75	31.00	1245.46
MW-7DD*	9970.8547	10176.2698	1277.74	Glacial Till	2.19	1275.55	NA	NA
GP-1S	9954.39*	10203.02*	1278.98	Shallow WBZ		1278.98	NA	NA
GP-2S	9914.89*	10201.04*	1278.63	Shallow WBZ		1278.63	NA	NA
GP-2D	9914.91*	10207.84*	1278.7	Lower Fine Sand WBZ		1278.70	NA	NA
GP-3S	9941.13*	10264.03*	1278.87	Shallow WBZ		1278.87	NA	NA
GP-3D	9937.38*	10264.53*	1278.77	Lower Fine Sand WBZ		1278.77	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	Shallow WBZ	8.43	1269.63	NA	NA
GP-4D	9940.85*	10151.57*	1278.08	Lower Fine Sand WBZ	14.33	1263.75	NA	NA
GP-5S	9993.54*	10200.34*	1277.44	Shallow WBZ	8.44	1269.00	8.93	1268.51
GP-5D	9993.55*	10290.21*	1277.37	Lower Fine Sand WBZ	NA	NA	Damaged	NA
PZ-1S			1277.97	Shallow WBZ	8.49	1269.48	NA	NA
PZ-1D			1277.75	Lower Fine Sand WBZ	11.95	1265.80	NA	NA
PZ-2D			1277.86	Lower Fine Sand WBZ	11.41	1266.45	NA	NA
PZ-3D			1279.02	Lower Fine Sand WBZ		1279.02	NA	NA
PZ-4D			1278.94	Lower Fine Sand WBZ		1278.94	NA	NA
PZ-5S			1276.56	Shallow WBZ	6.51	1270.05	7.41	1269.15
PZ-5D			1276.52	Lower Fine Sand WBZ	10.23	1266.29	10.08	1266.44
PZ-6S			1276.77	Shallow WBZ	9.29	1267.48	9.38	1267.39
PZ-6D			1276.57	Lower Fine Sand WBZ	9.68	1266.89	9.73	1266.84
PZ-7D			1275.83	Lower Fine Sand WBZ	10.91	1264.92	10.65	1265.18
PZ-8D			1278.63	Lower Fine Sand WBZ	Destroyed	NA	NA	NA
PZ-9D			1278.04	Lower Fine Sand WBZ	12.18	1265.86	NA	NA
PZ-10D			1277.58	Lower Fine Sand WBZ		1277.58	NA	NA
PZ-11D			1276.7	Lower Fine Sand WBZ	10.49	1266.21	10.29	1266.41
TW-01			1279.1	Shallow WBZ	Destroyed	NA	Destroyed	NA
VP-5D			1278.2	Lower Fine Sand WBZ	10.68	1267.52	11.03	1267.17
VP-6S			1276.62	Upper Gravel of LFSWBZ	10.53	1266.09	10.68	1265.94
VP-6D			1276.71	Lower Fine Sand WBZ	10.83	1265.88	10.89	1265.82
VP-7D			1278.87	Lower Fine Sand WBZ	12.38	1266.49	12.68	1266.19
VP-8D			1277.37	Lower Fine Sand WBZ	10.24	1267.13	11.10	1266.27
Comments					2157 Days of System Operation		2202 Days of System Operation	
WBZ - Water Bearing Zone								
* = Estimated Coordinate								
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000								
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work								
RW-4S and RW-5S taken offline in October 2002 for UST Removal								
Wells RW-4S, TW-01, PZ-8D and HW-7 destroyed during UST removal operation								

APPENDIX A-2

2003 Groundwater Extraction System Monitoring Data

**2003 Groundwater Extraction System Operating Data
Recovery Well Pumping Rate vs. Time**

**Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 801419**

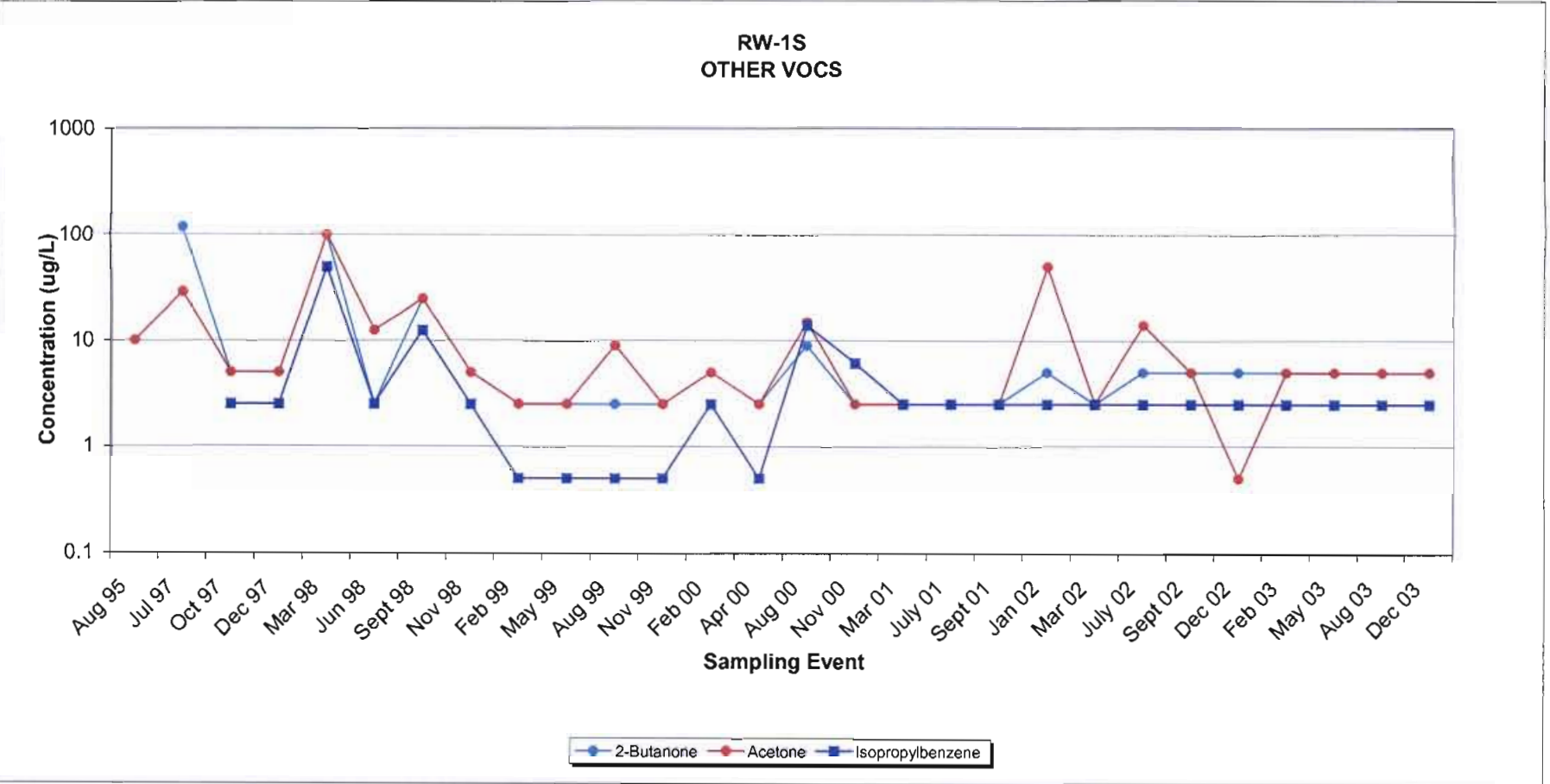
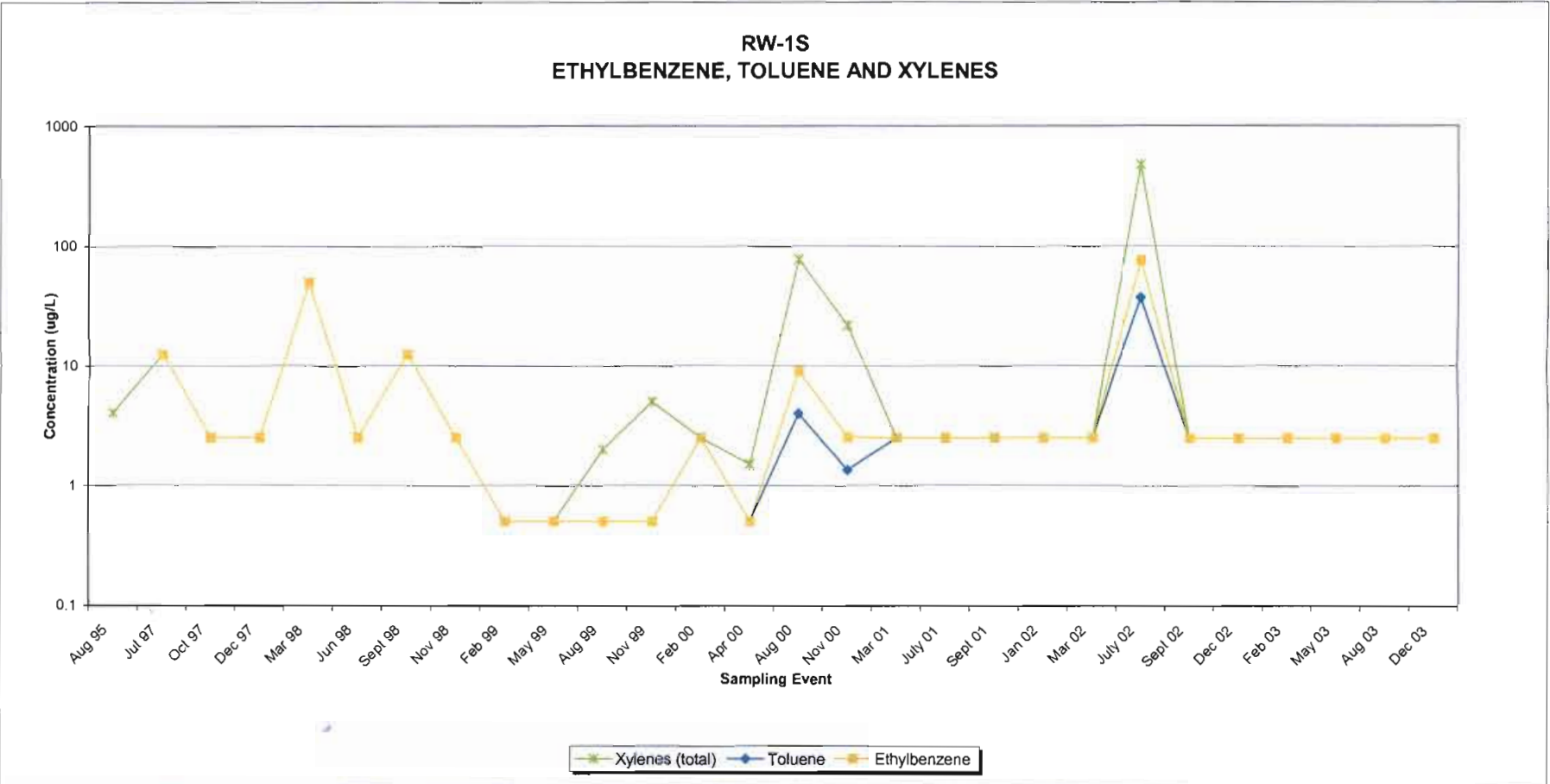
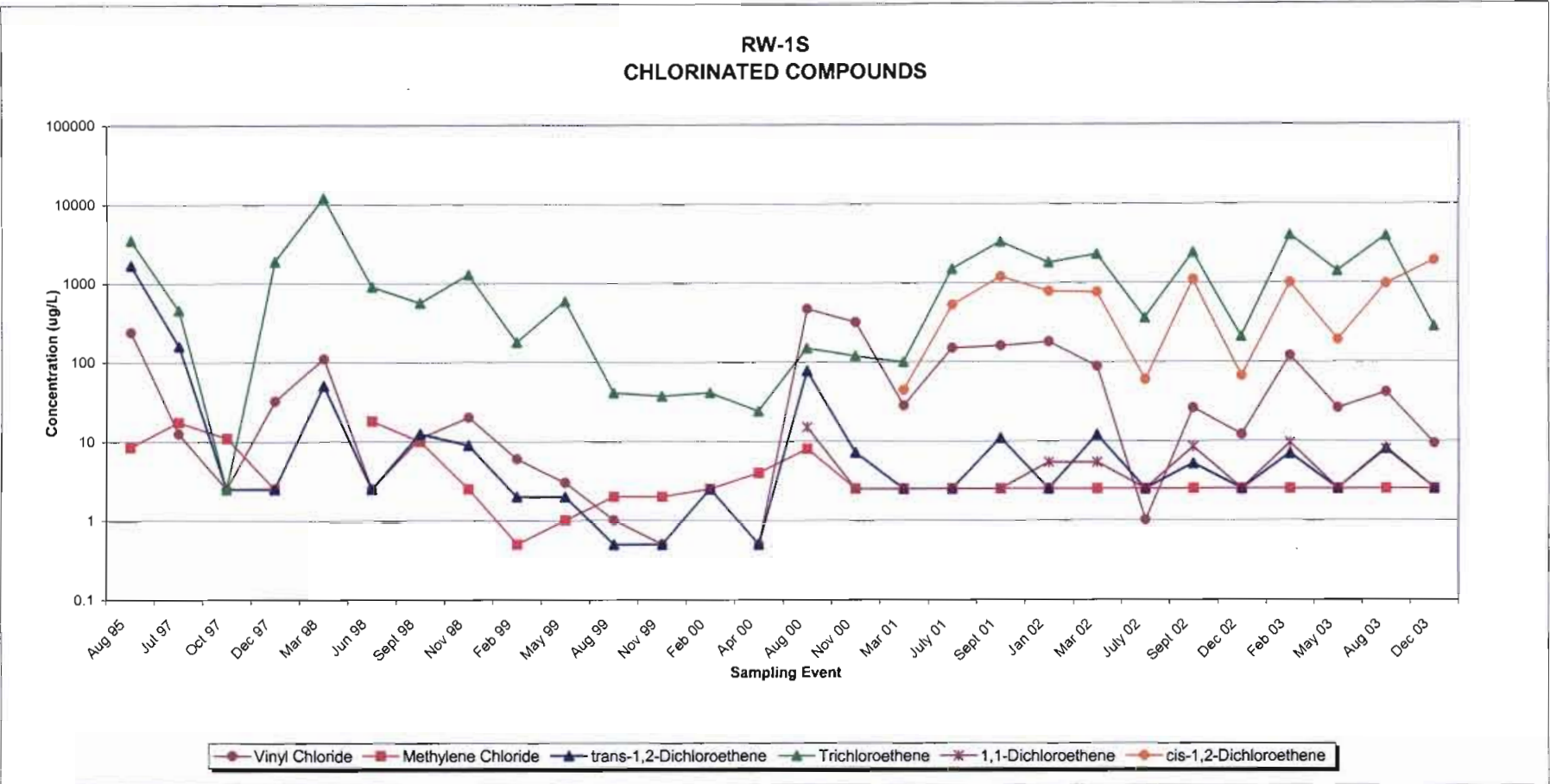
Date	Elapsed Time (Days)	NPL Area - Shallow WBZ			NPL Area - L.F. Sand WBZ			AST/UST Area - Shallow WBZ	Comments
		RW-1S Avg. GPM	RW-2S Avg. GPM	Total GPM	RW-1D Avg. GPM	RW-2D Avg. GPM	Total GPM	RW-3S Avg. GPM	
1/12/2003	1892	0.245	2.07	2.315	0	2.44	2.44	0.058	
1/19/2003	1899	0.229	2.06	2.289	0	2.71	2.71	0.02	
1/26/2003	1906	0.144	1.09	1.234	0	2.60	2.6	0.01	
2/2/2003	1913	0.09	0.64	0.73	0	2.57	2.57	0.008	
2/9/2003	1920	0.14	1.39	1.53	0	2.69	2.69	0.048	RW-2D frequency increased to 60 Hz on 2/6/03.
2/16/2003	1927	0.11	0.93	1.04	0	2.75	2.75	0.015	
2/23/2003	1934	0.08	0.59	0.67	0	2.48	2.48	0.011	
3/2/2003	1941	0.17	1.51	1.68	0	2.43	2.43	0	RW-3S not pumping due to switch left off.
3/9/2003	1948	0.16	1.35	1.51	0	2.39	2.39	0.07	
3/16/2003	1955	0.18	1.67	1.85	0	2.39	2.39	0.024	RW-3S shut down for cleaning of level probes @ 0930 and back in service @ 1030.
3/18/2003	1957	0.20	1.67	1.87	0	2.32	2.32	0.24	RW-2D shut down @ 1000 for discharge line and pump cleaning, all well shut down @ 1645 for tank cleaning.
4/13/2003	1964								Pumping system down between 3/18/03 and 4/13/03 for repair of equilibrium tank controls; Restart pumps on 4/13/03
4/20/2003	1990	0.205	1.90	2.105	0	2.83	2.83	0.55	
4/28/2003	1998	0.192	1.95	2.142	0	2.77	2.77	0.045	
5/4/2003	2004	0.172	1.68	1.852	0	2.84	2.84	0.044	
5/11/2003	2011	0.176	1.75	1.926	0	3.19	3.19	0.045	
5/18/2003	2018	0.139	1.38	1.519	0	2.33	2.33	0.047	
5/27/2003	2027	0.16	1.77	1.93	0	3.03	3.03	0.037	
6/5/2003	2036								Pumps restarted after being shut down approximately 6/1/03
6/12/2003	2043	0.15	1.89	2.04	0	2.92	2.92	0.063	
6/19/2003	2050								Pumps restarted after being shut down on 6/17/03, approx 0900
7/12/2003	2073								Pumps restarted after sewer line repair.
7/20/2003	2081	0.14	1.07	1.21	0	1.32	1.32	0.042	
7/27/2003	2088								RW-2D down on VFD under voltage; Reset VFD and re-start
8/3/2003	2095	0.13	1.42	1.55	0	3.08	3.08	0.053	Install reference probe at RW-2S
8/25/2003	2117	0.15	0.41	0.56	0	1.44	1.44	0.036	
9/4/2003	2127	0.13	1.01	1.14	0	2.07	2.07	0.086	
9/13/2003	2136								Restart pumps, off on high tank level alarm
9/28/2003	2151	0.09	0.69	0.78	0	2.75	2.75	0.009	
10/7/2003	2160	0.12	0.77	0.89	0	1.62	1.62	0.043	
10/12/2003	2165								Restart pumps, off on high tank level alarm
10/19/2003	2172								Restart pumps, off on high tank level alarm
10/26/2003	2179								Shut down pumps for carbon change-out on 10-28-03
10/30/2003	2183								Restart pumps
11/7/2003	2191	0.15	0.71	0.86	0		2.18	~ 04	Shut down pumps for annual sampling
11/13/2003	2197								Restart pumps
11/18/2003	2202	0.18	0.93	1.11	0	2.28	2.28	~ 04	
11/26/2003	2210	0.18	1.05	1.23	0	2.23	2.23	~ 04	
12/4/2003	2218	0.3	1.68	1.98	0	3.09	3.09	~ 04	
12/14/2003	2228	0.17	0.93	1.1	0	2.37	2.37	0	RW-3S pump offline for repair
12/28/2003	2242	0.15	0.56	0.71	0	1.48	1.48	0	

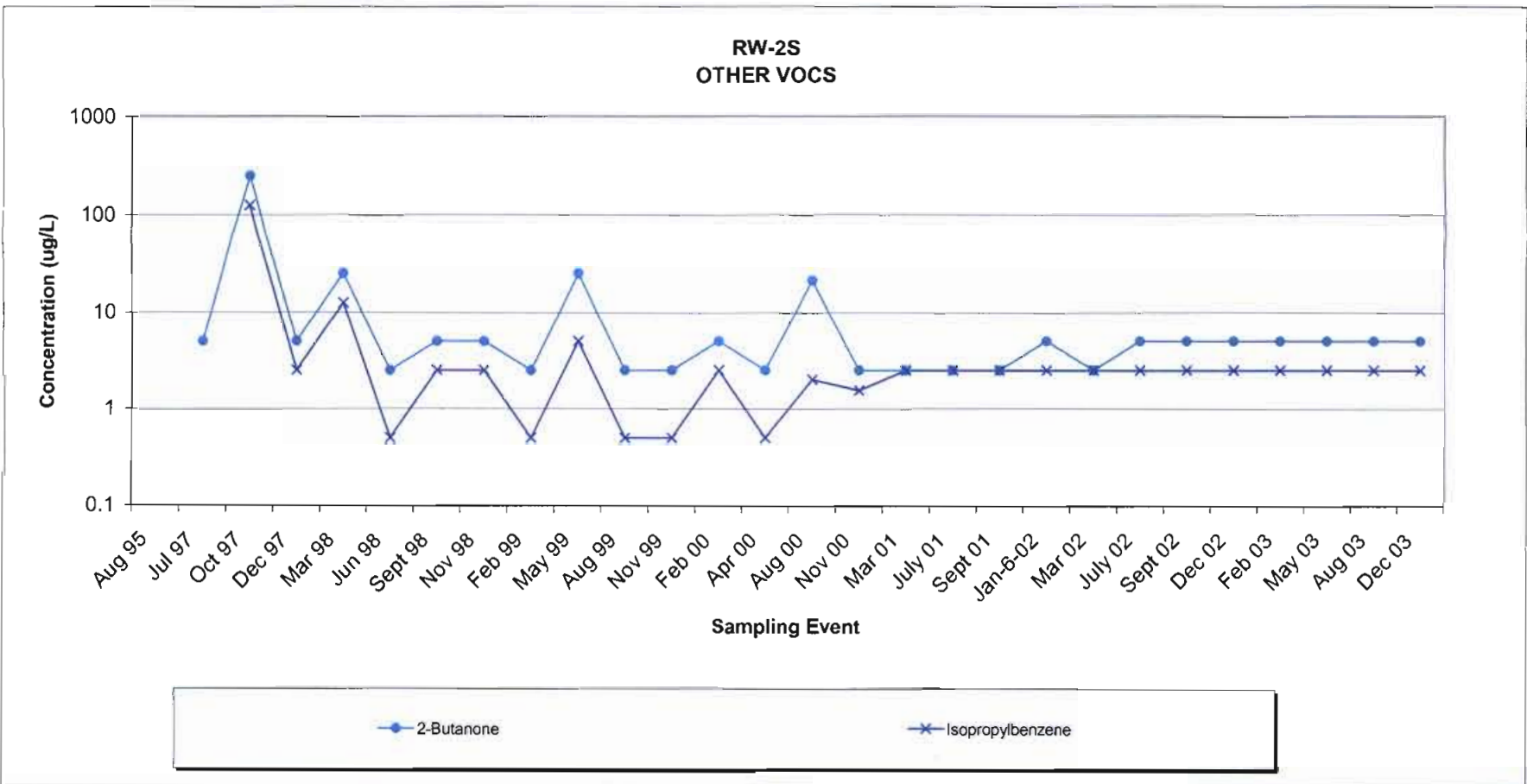
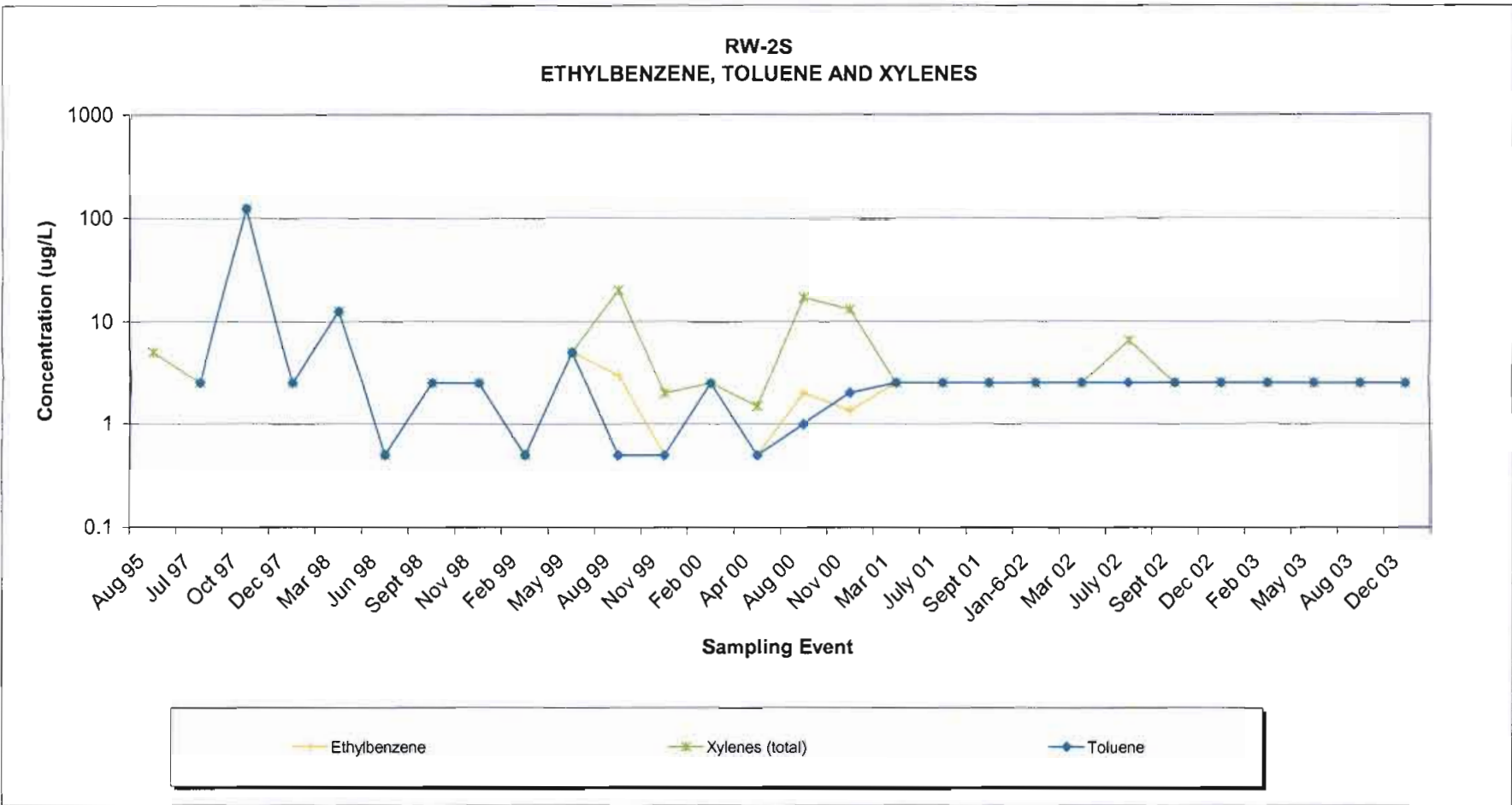
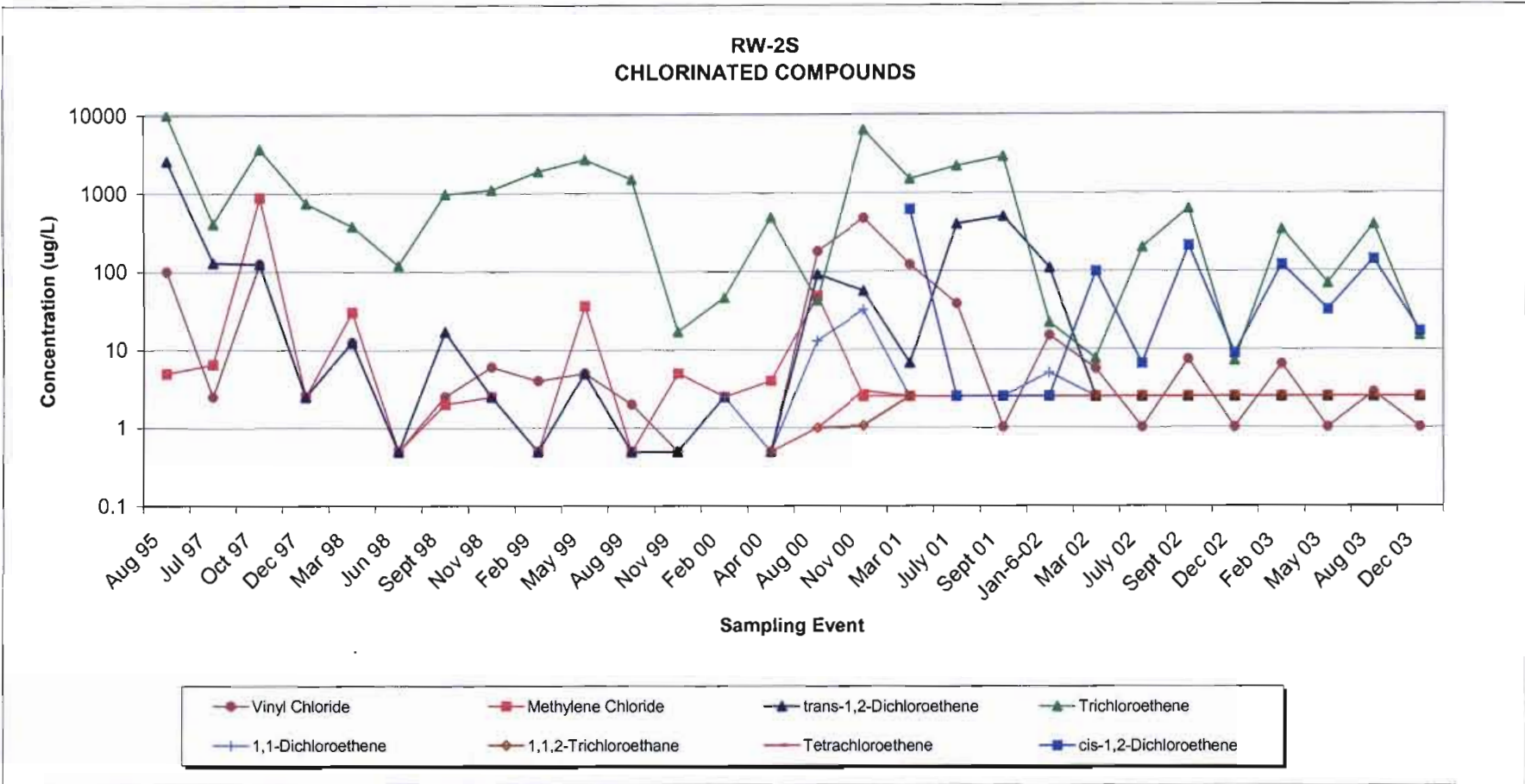
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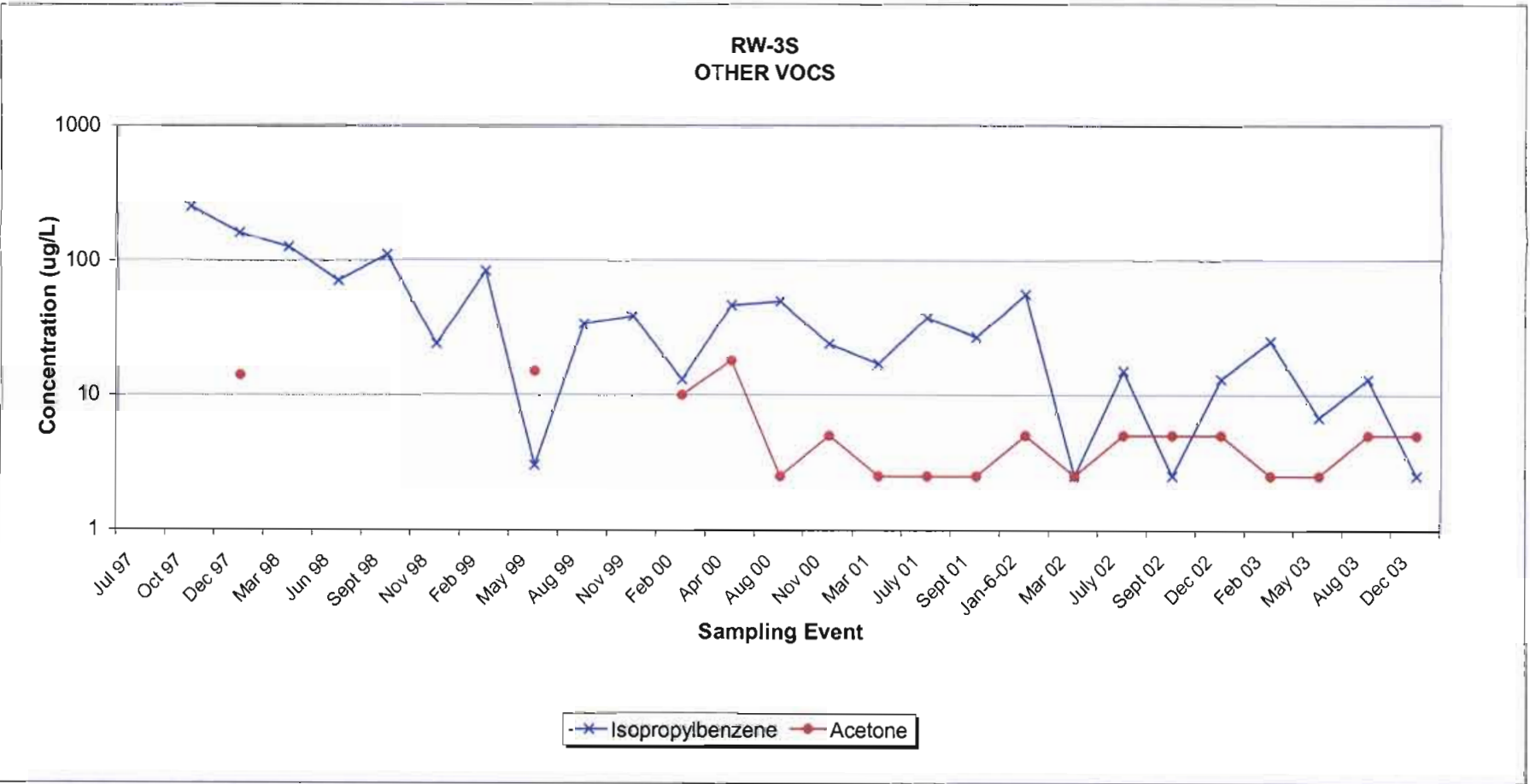
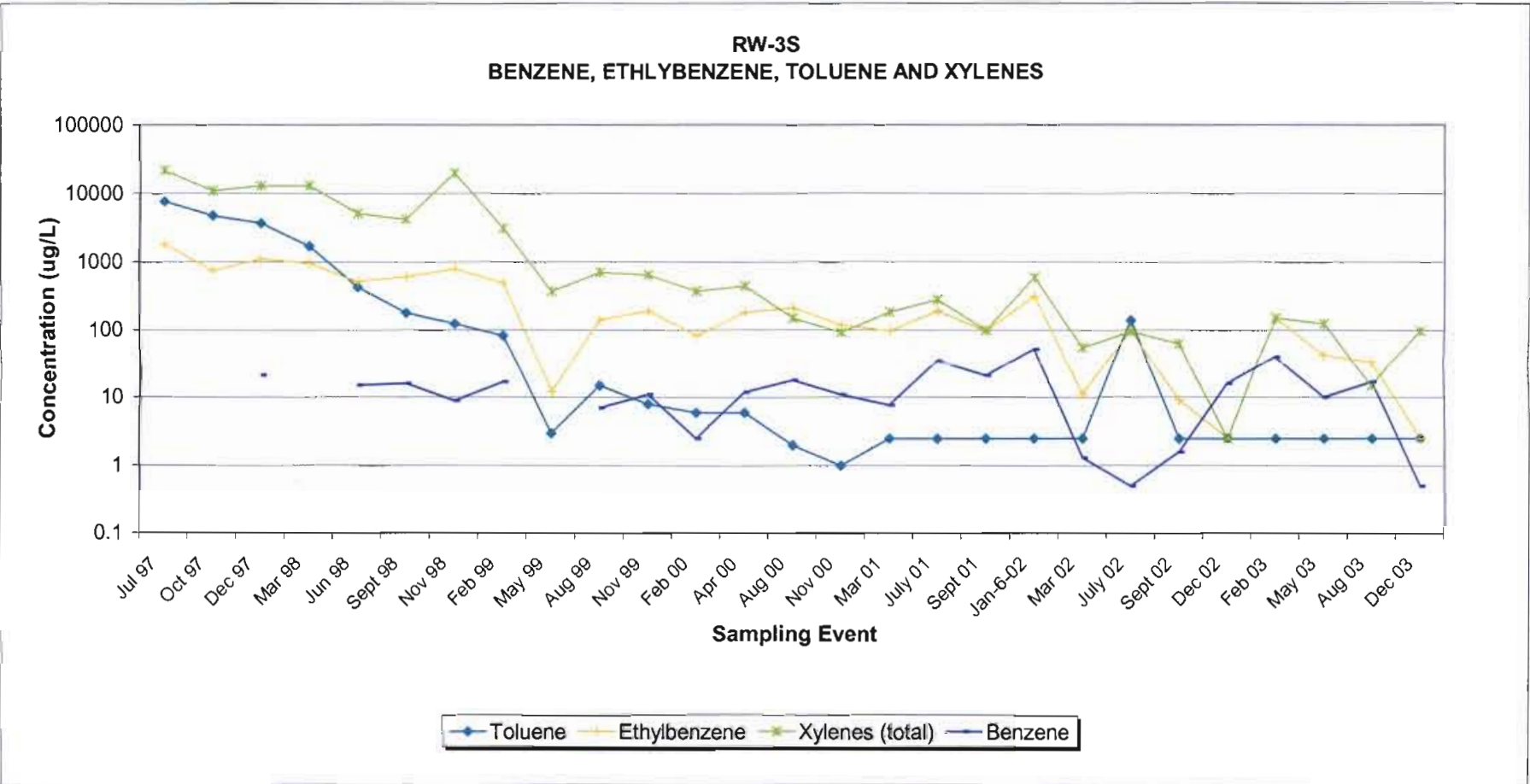
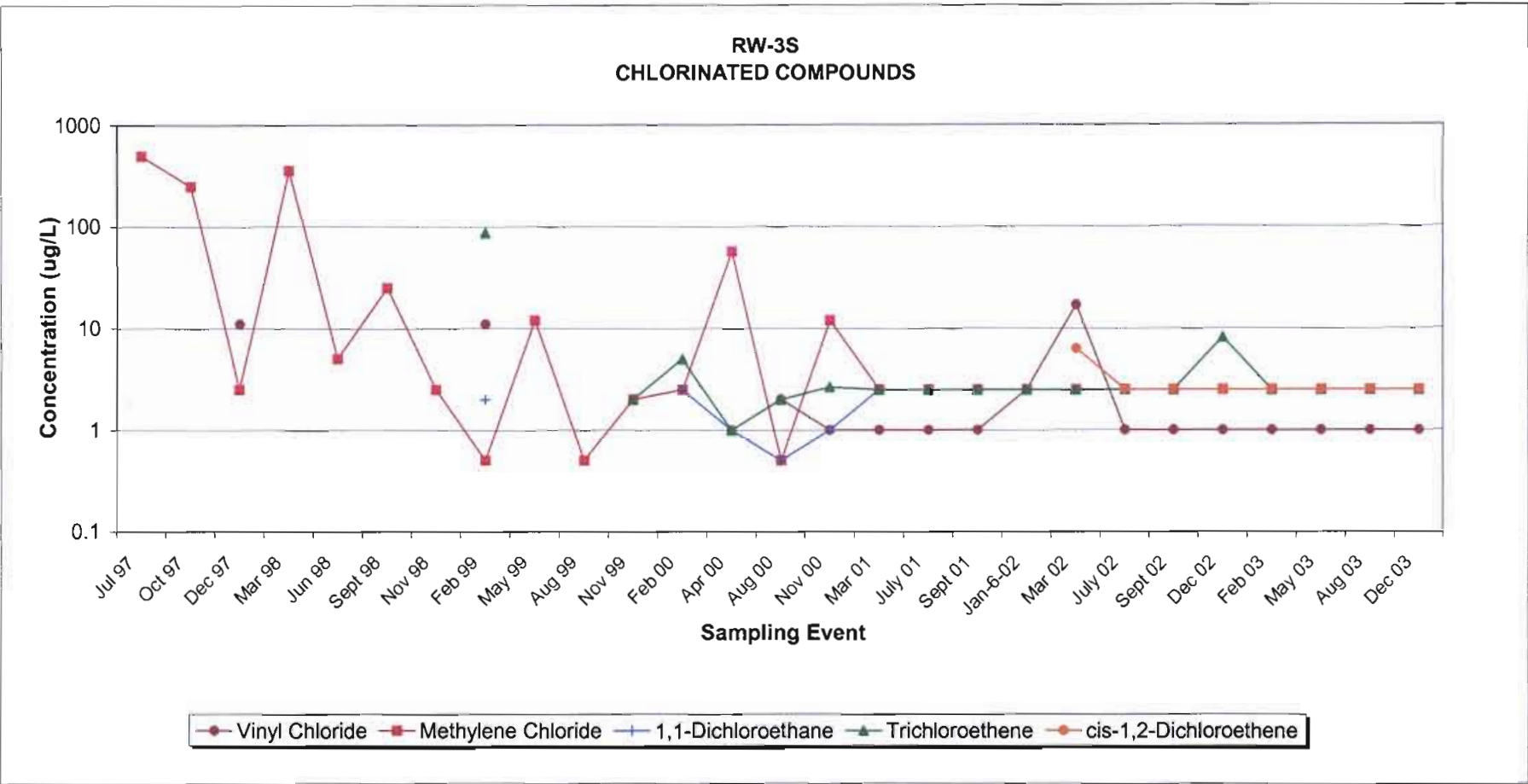
1. RW-4S was destroyed and RW-5S inoperable since November 2002 UST removal activities in the UST Area

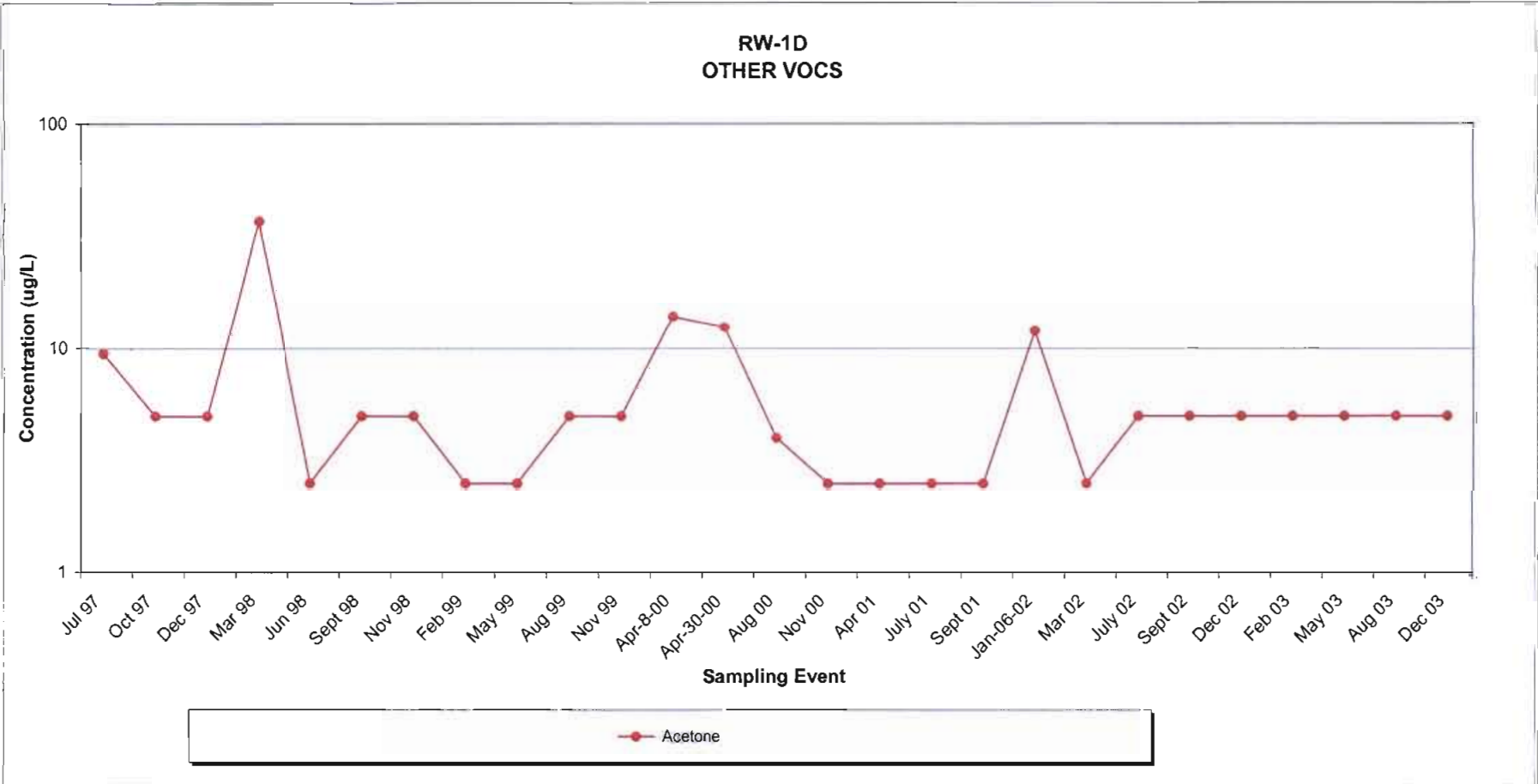
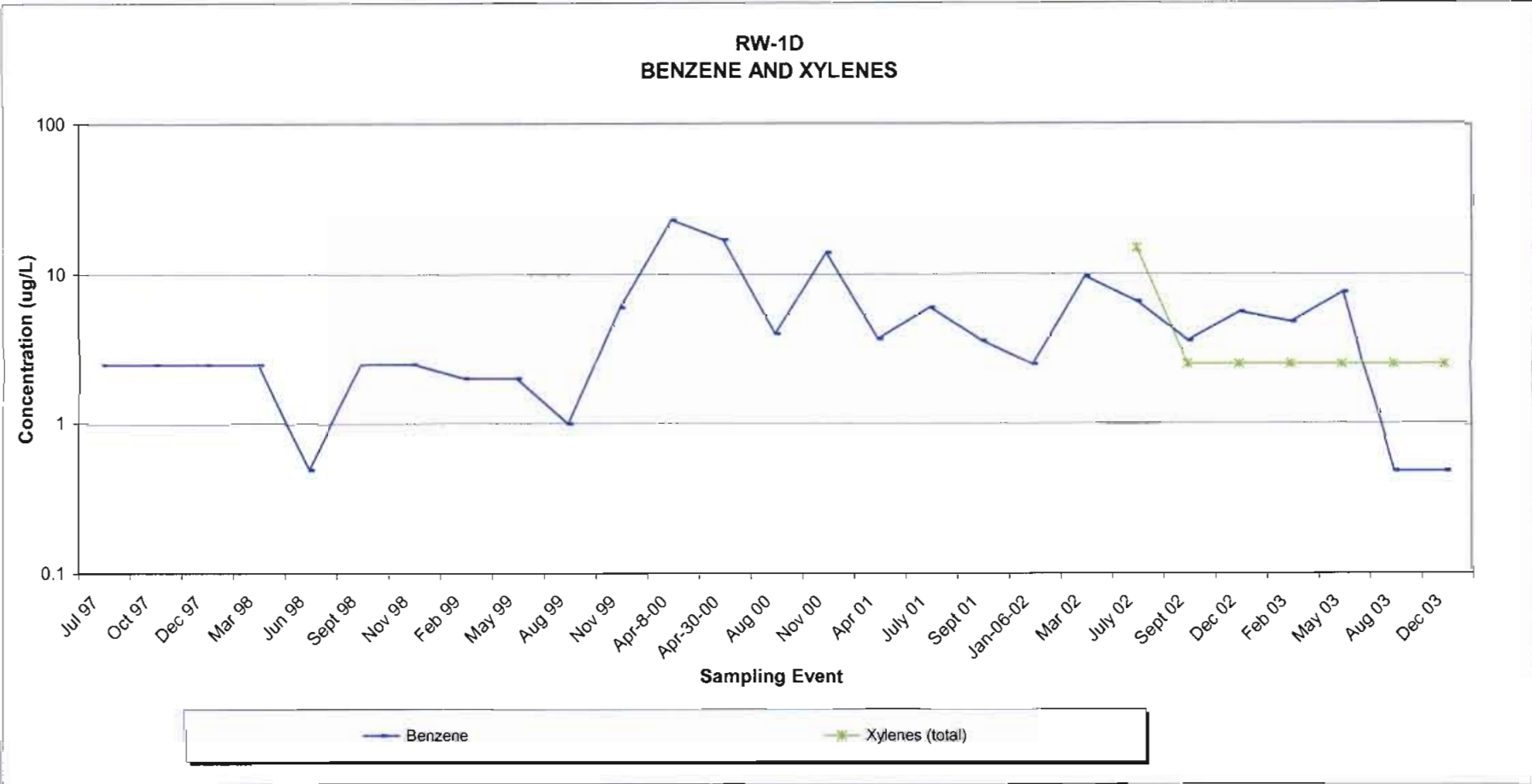
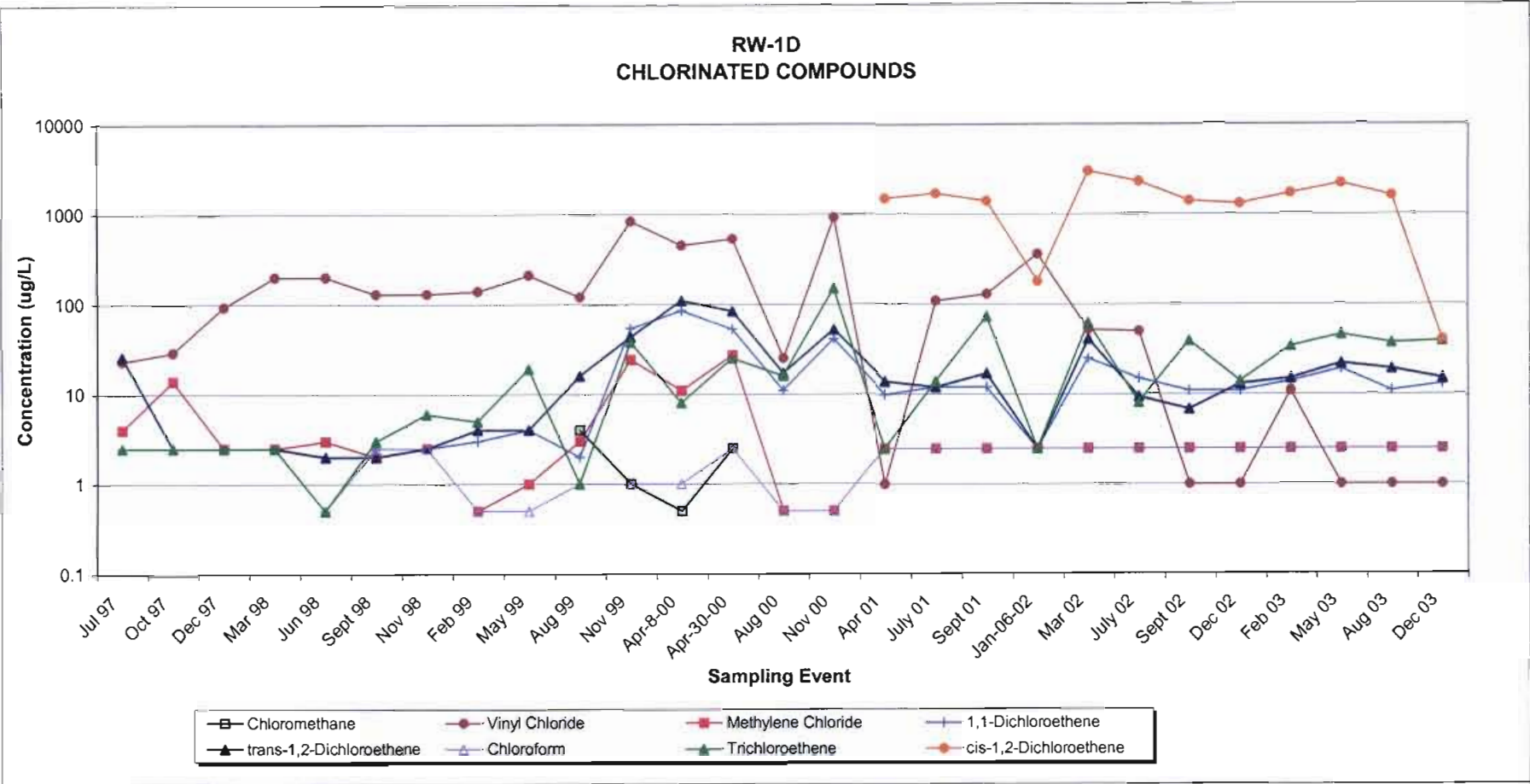
APPENDIX B

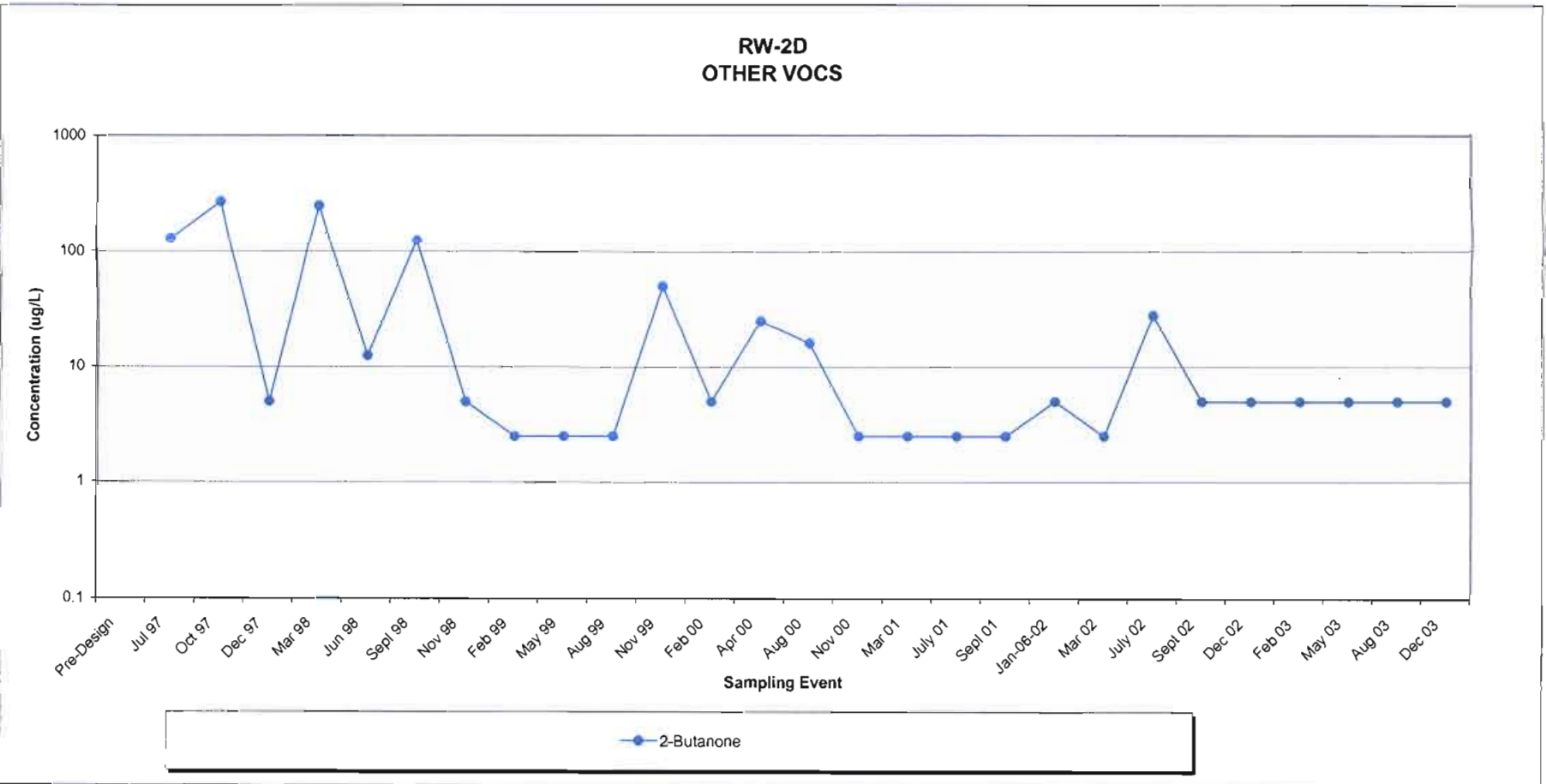
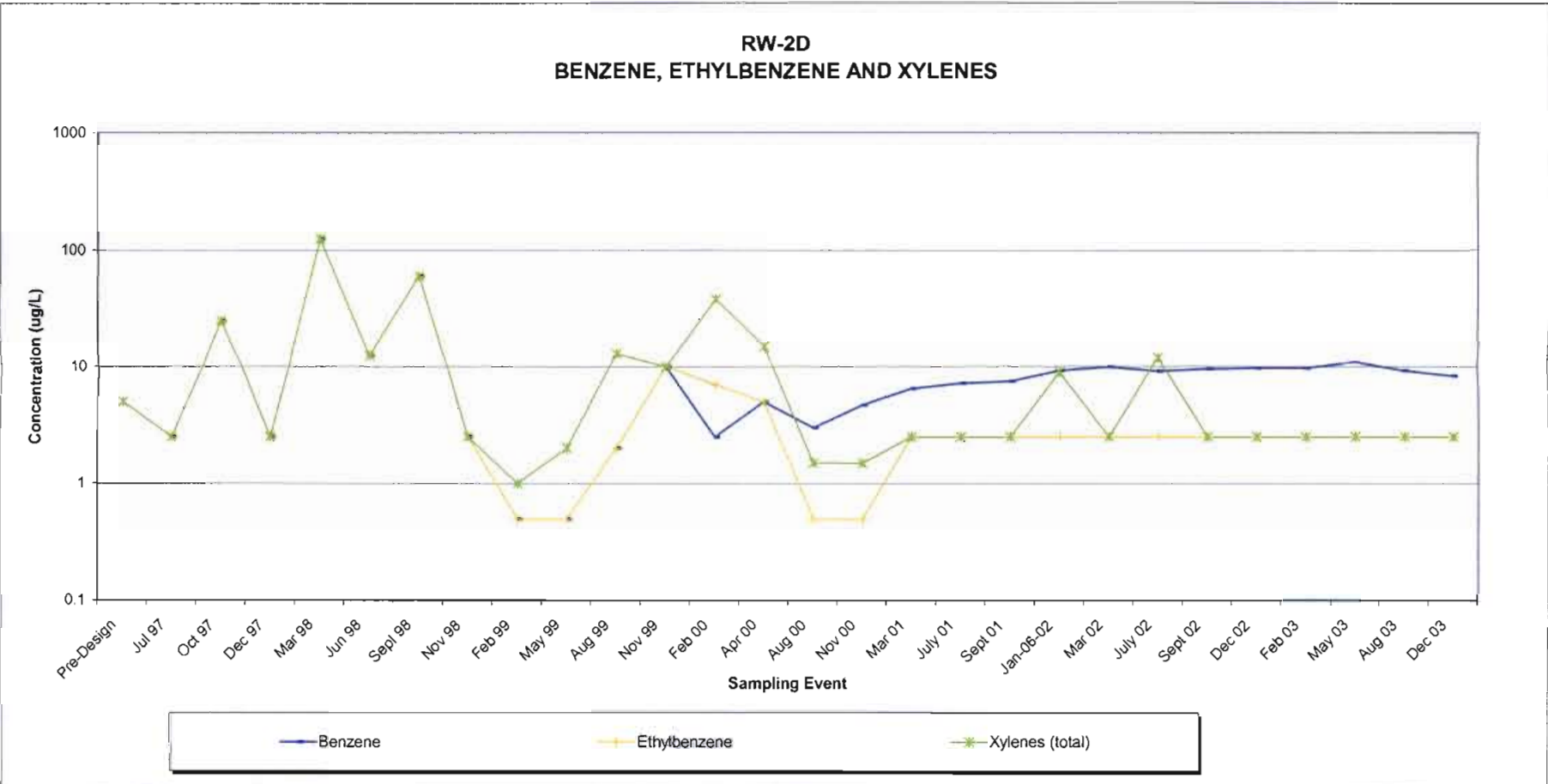
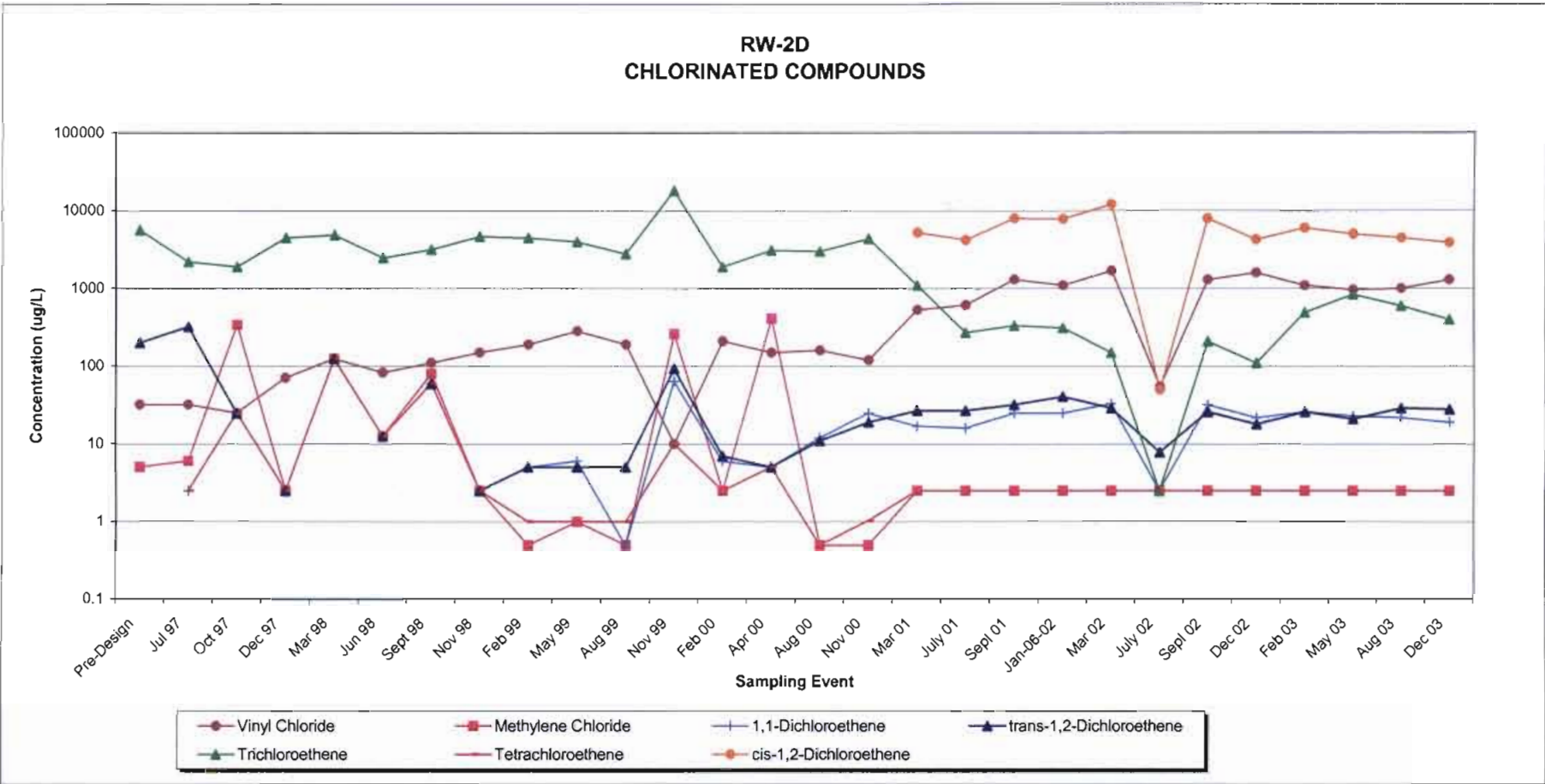
RECOVERY AND MONITORING WELL CONSTITUENT CONCENTRATION vs TIME PLOTS

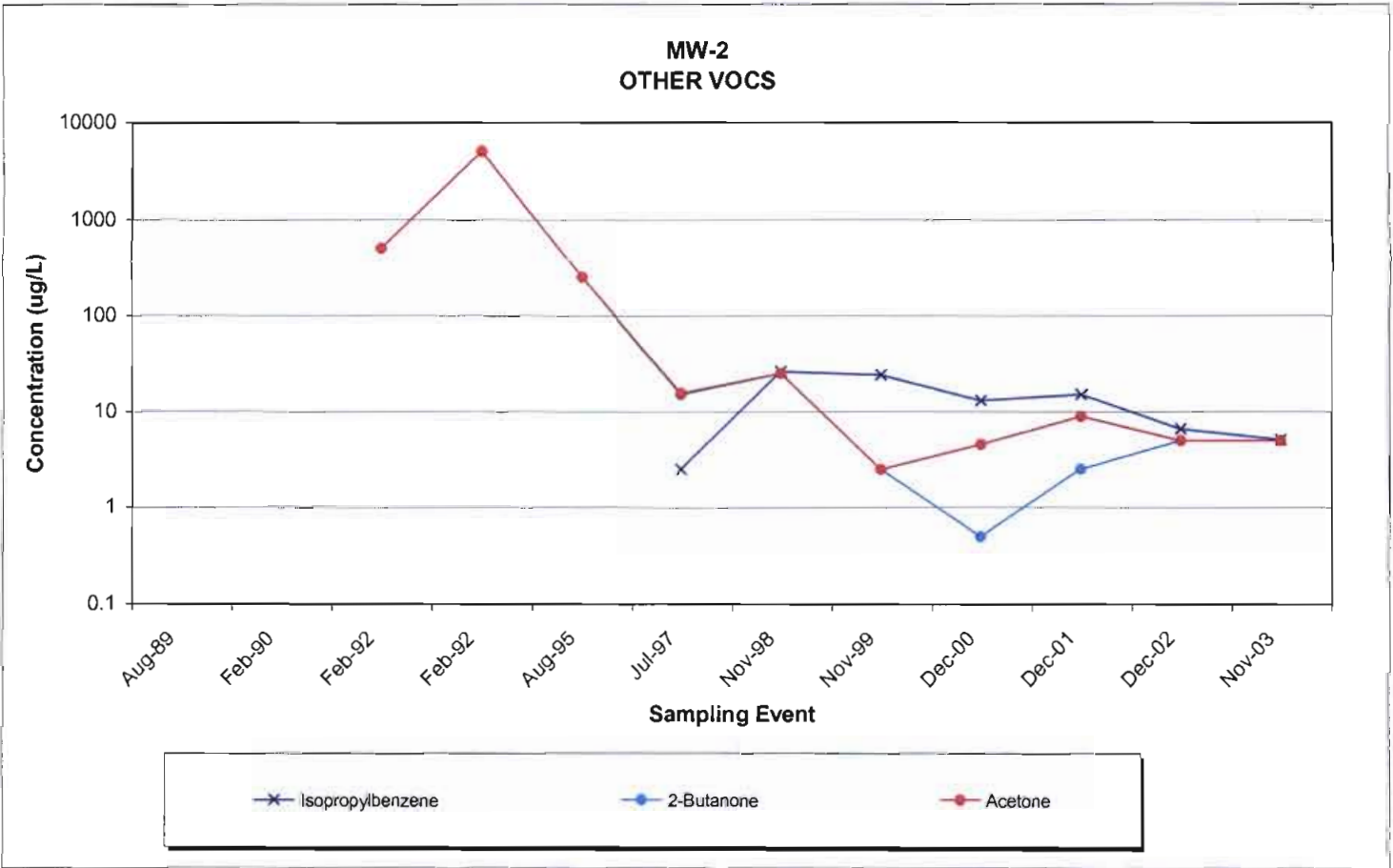
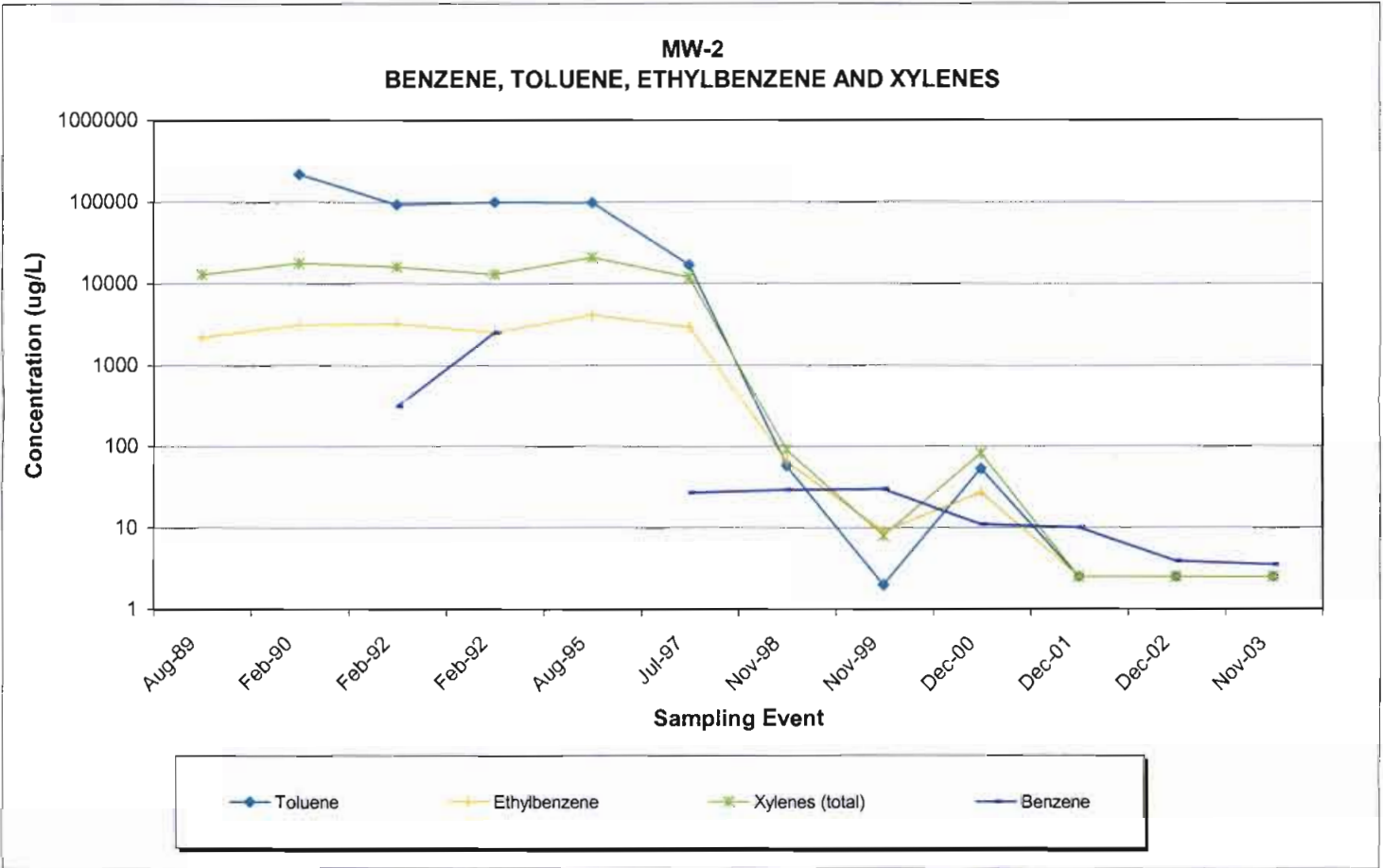
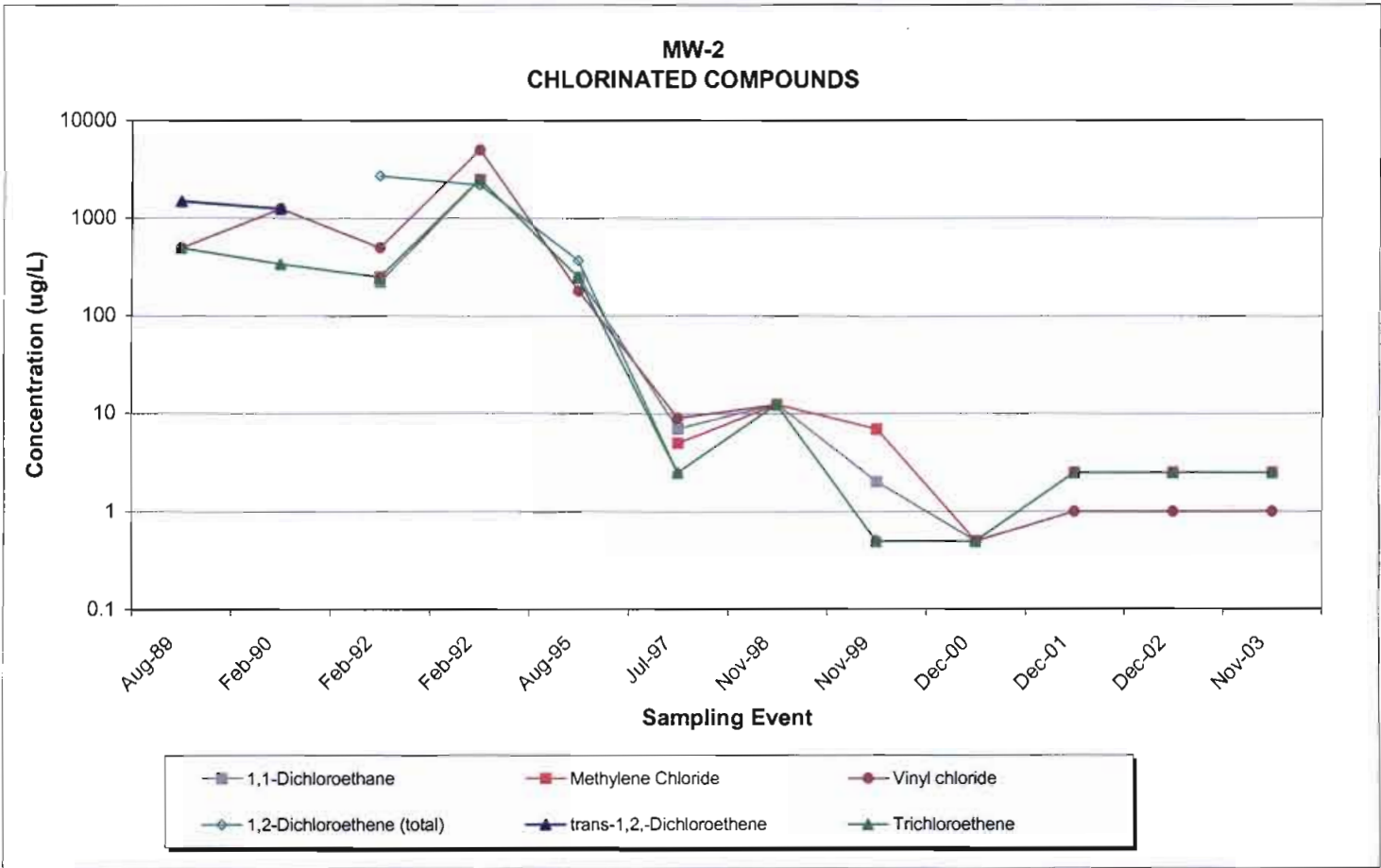


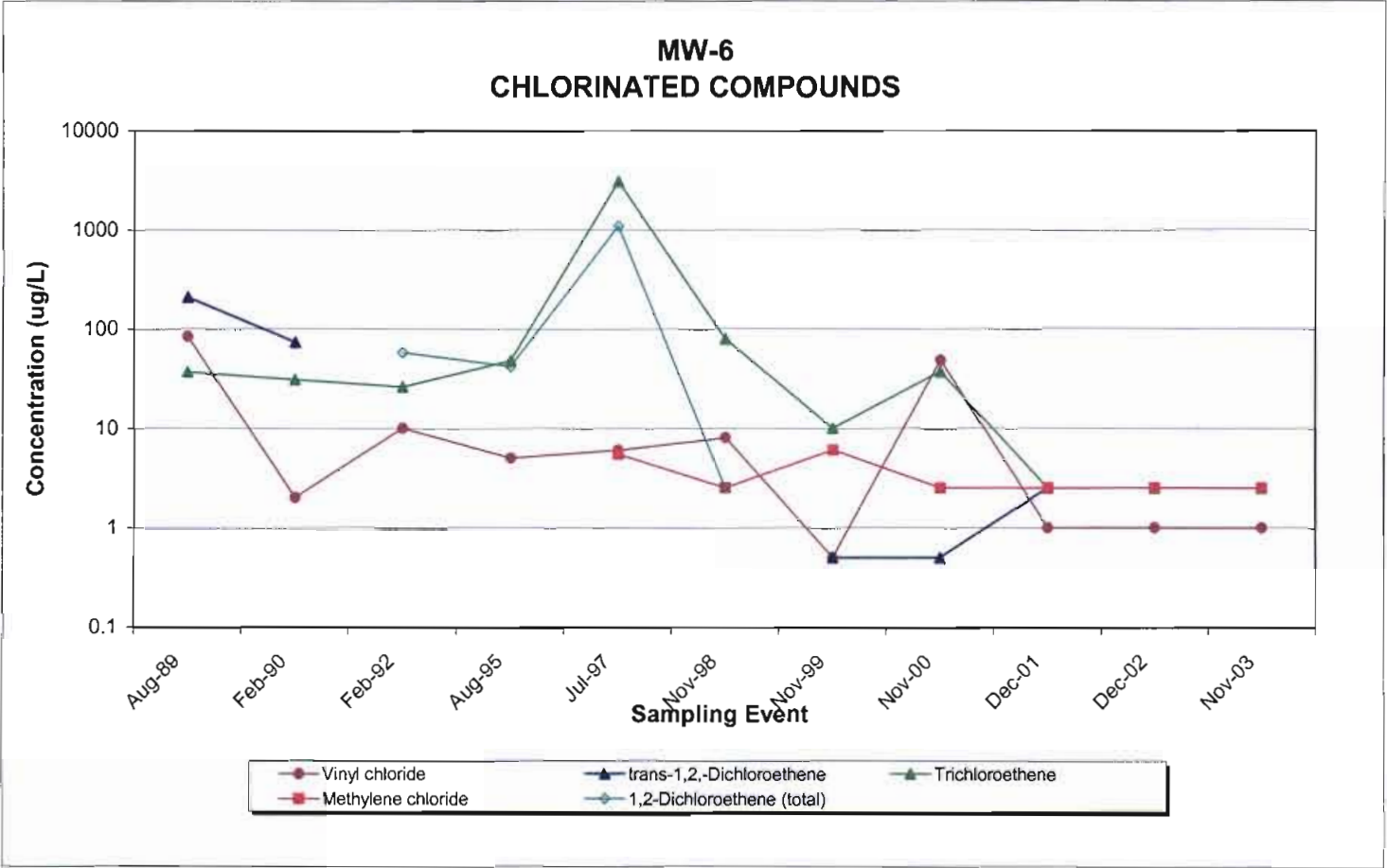


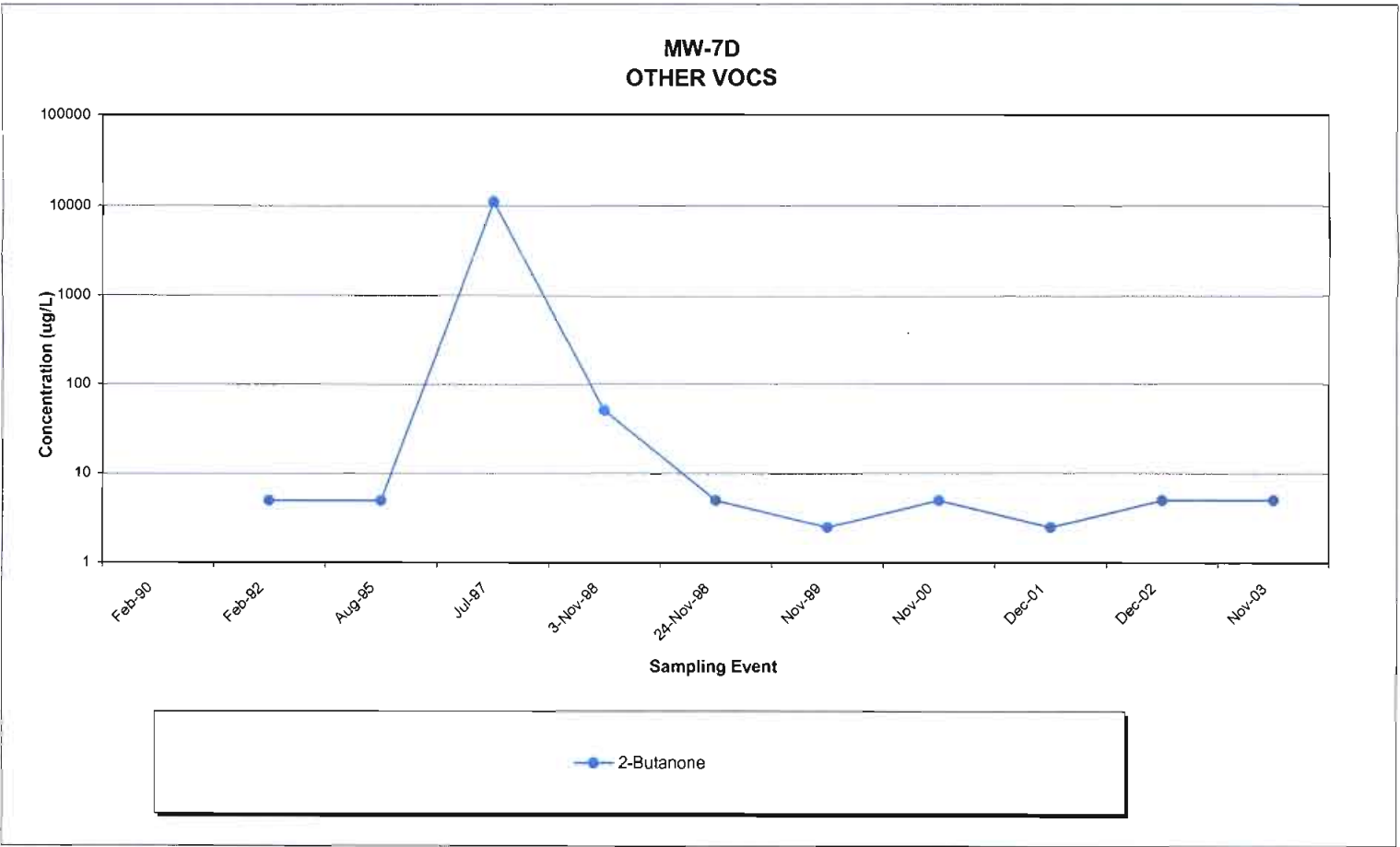
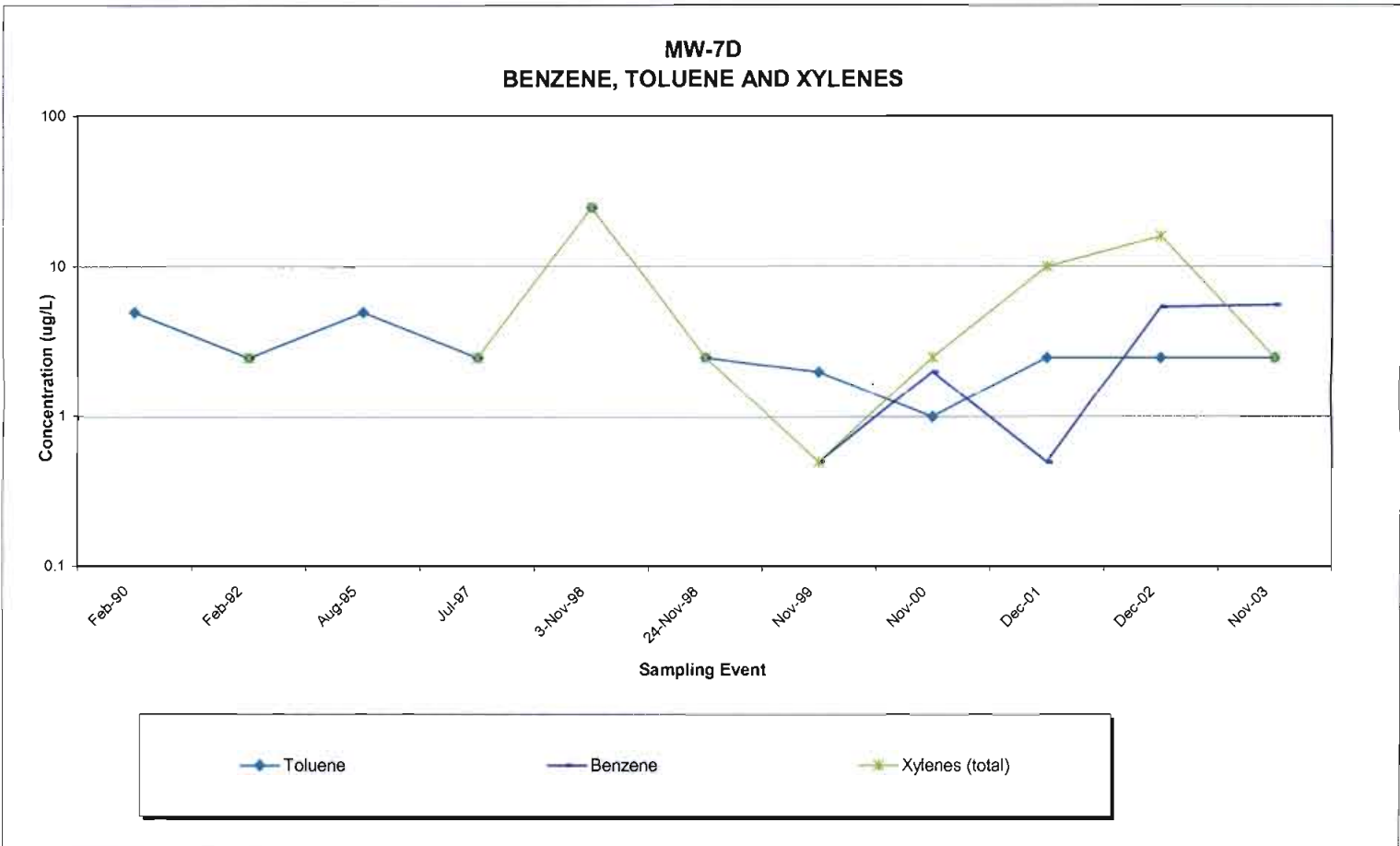
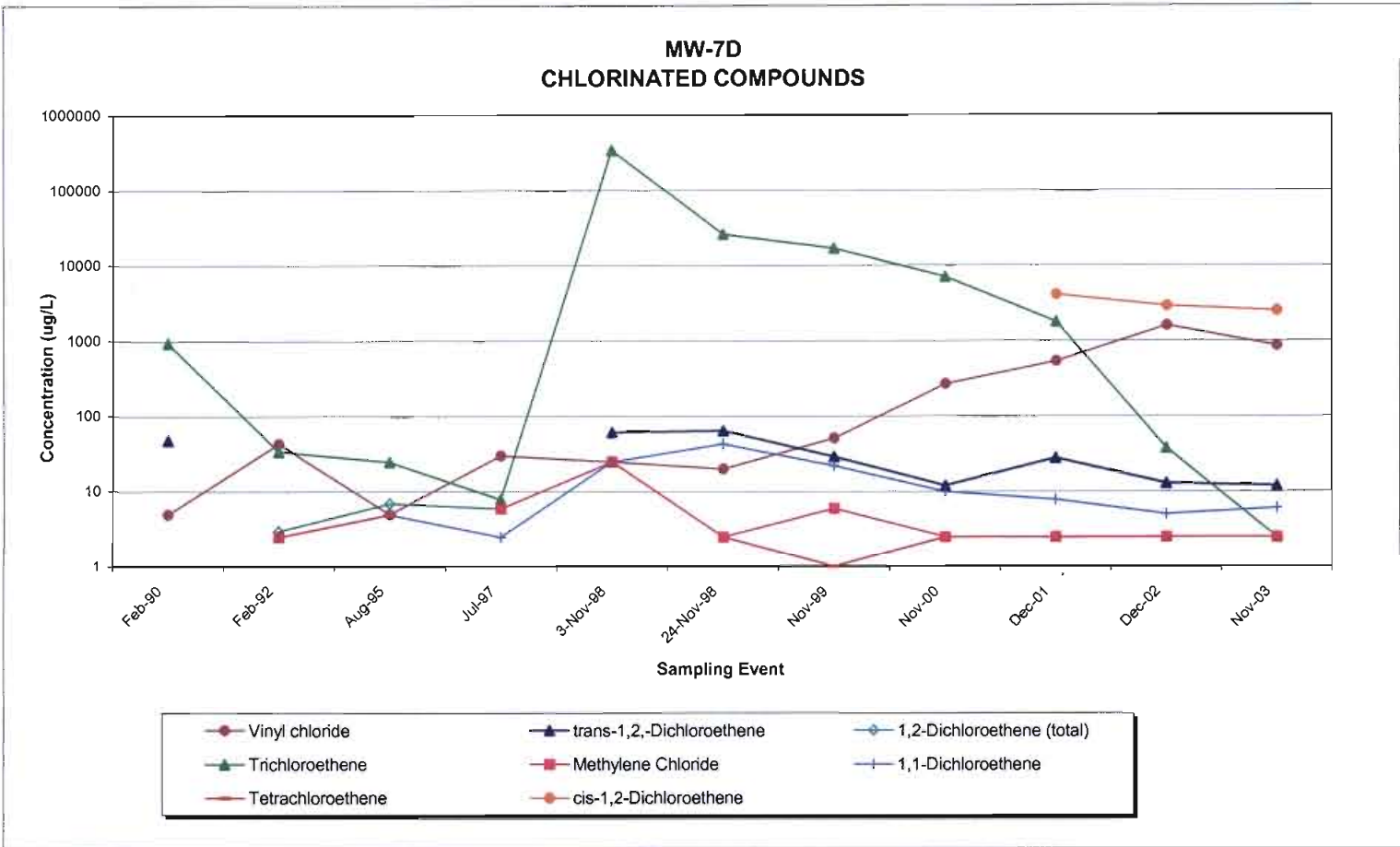


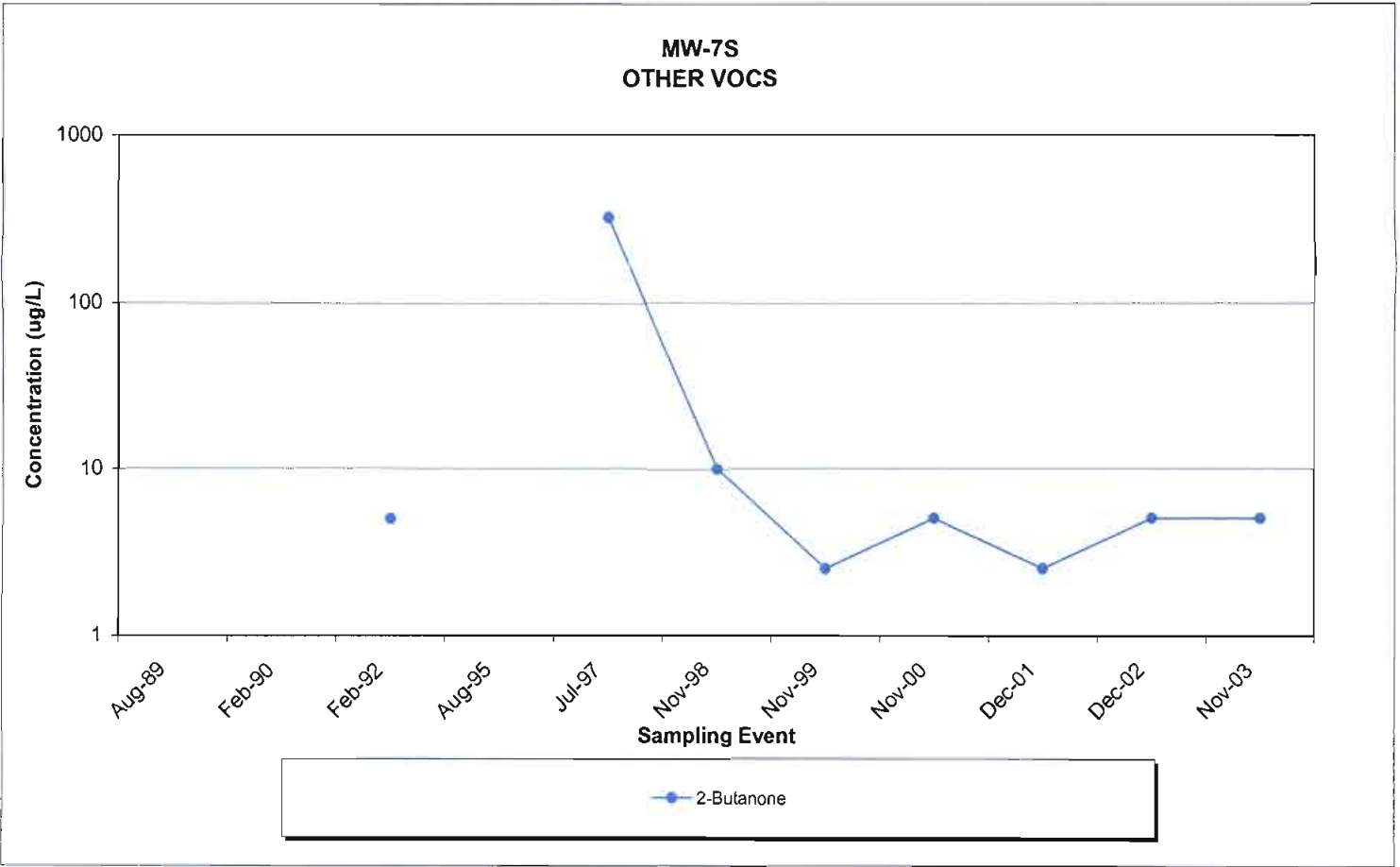
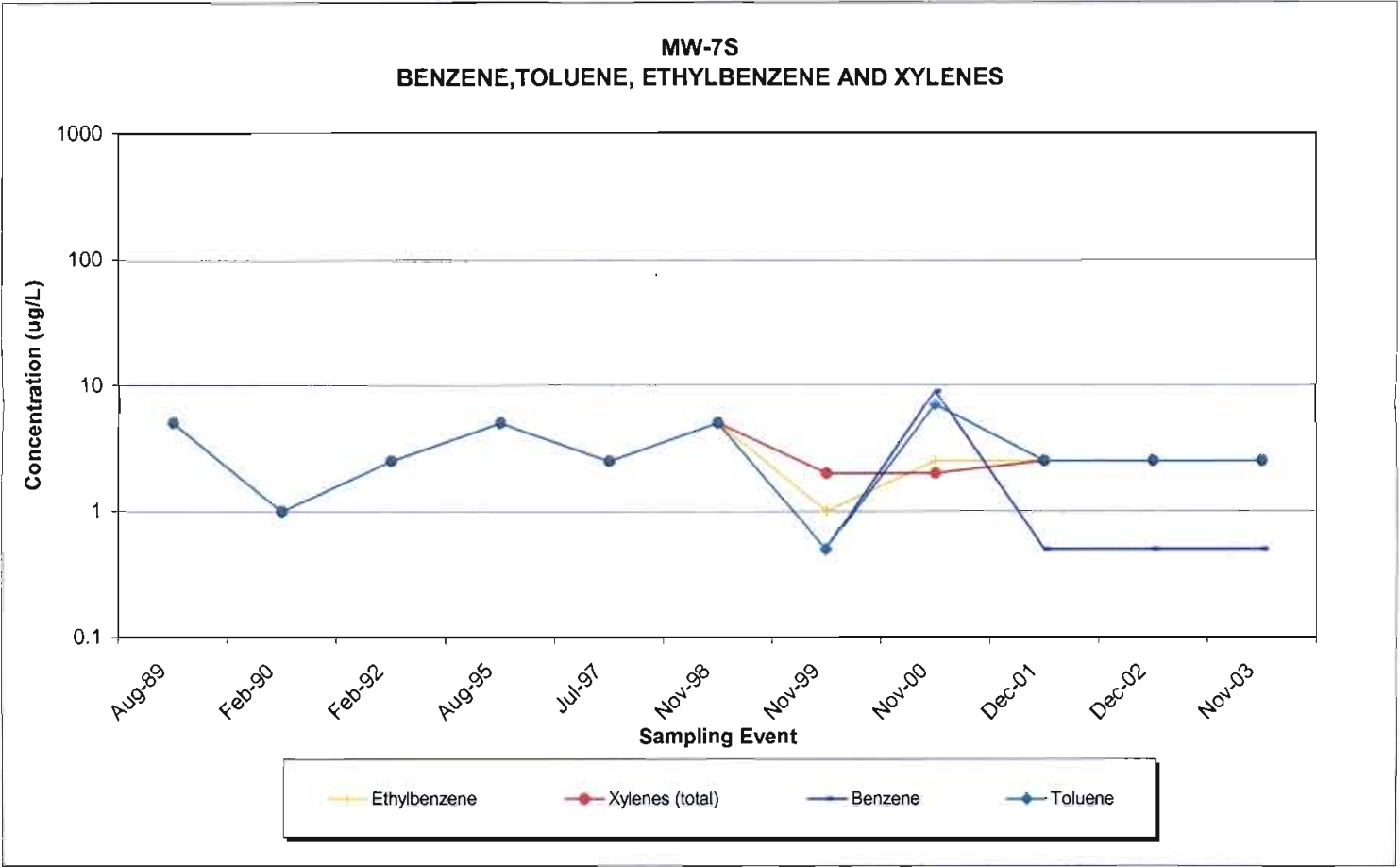
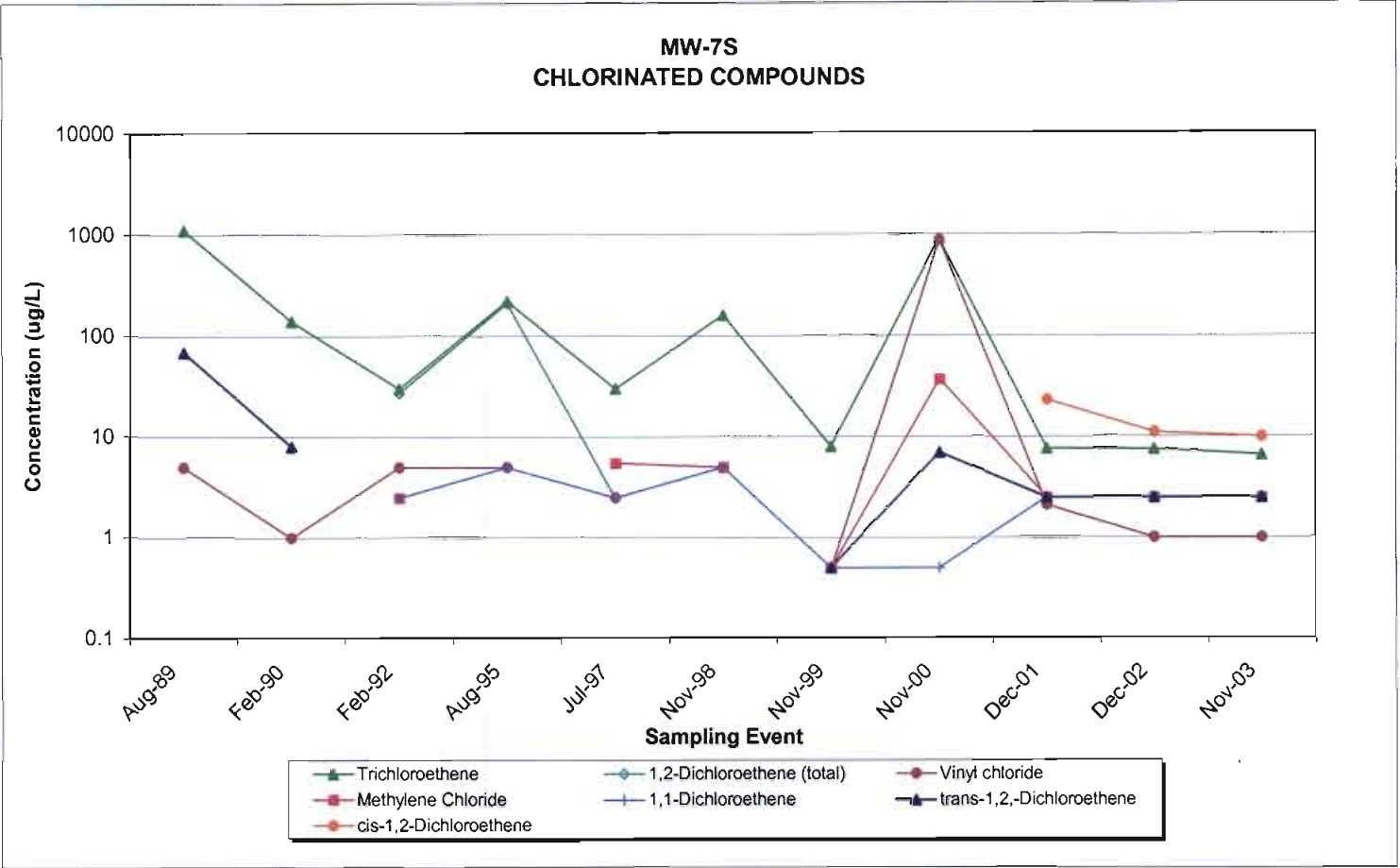


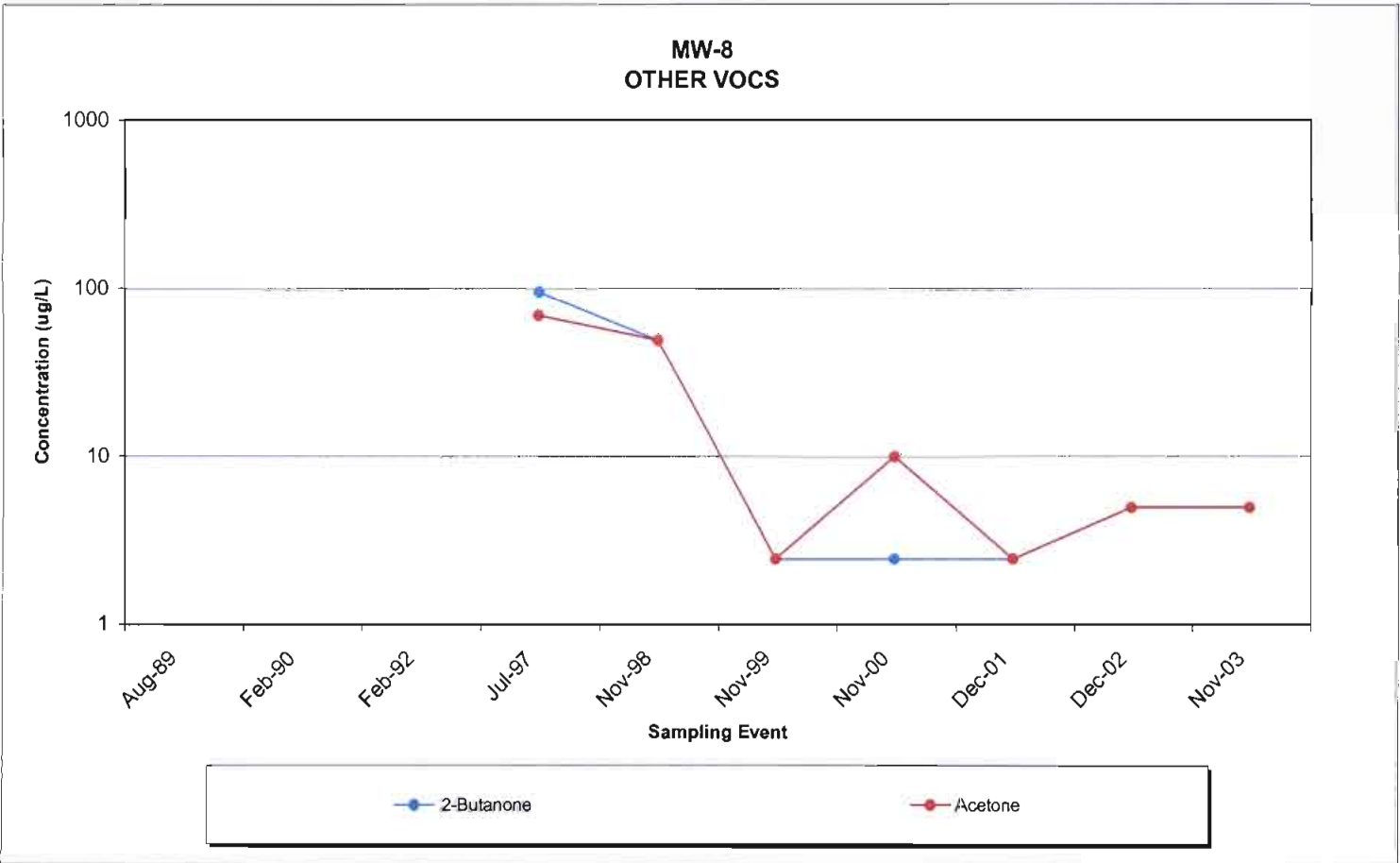
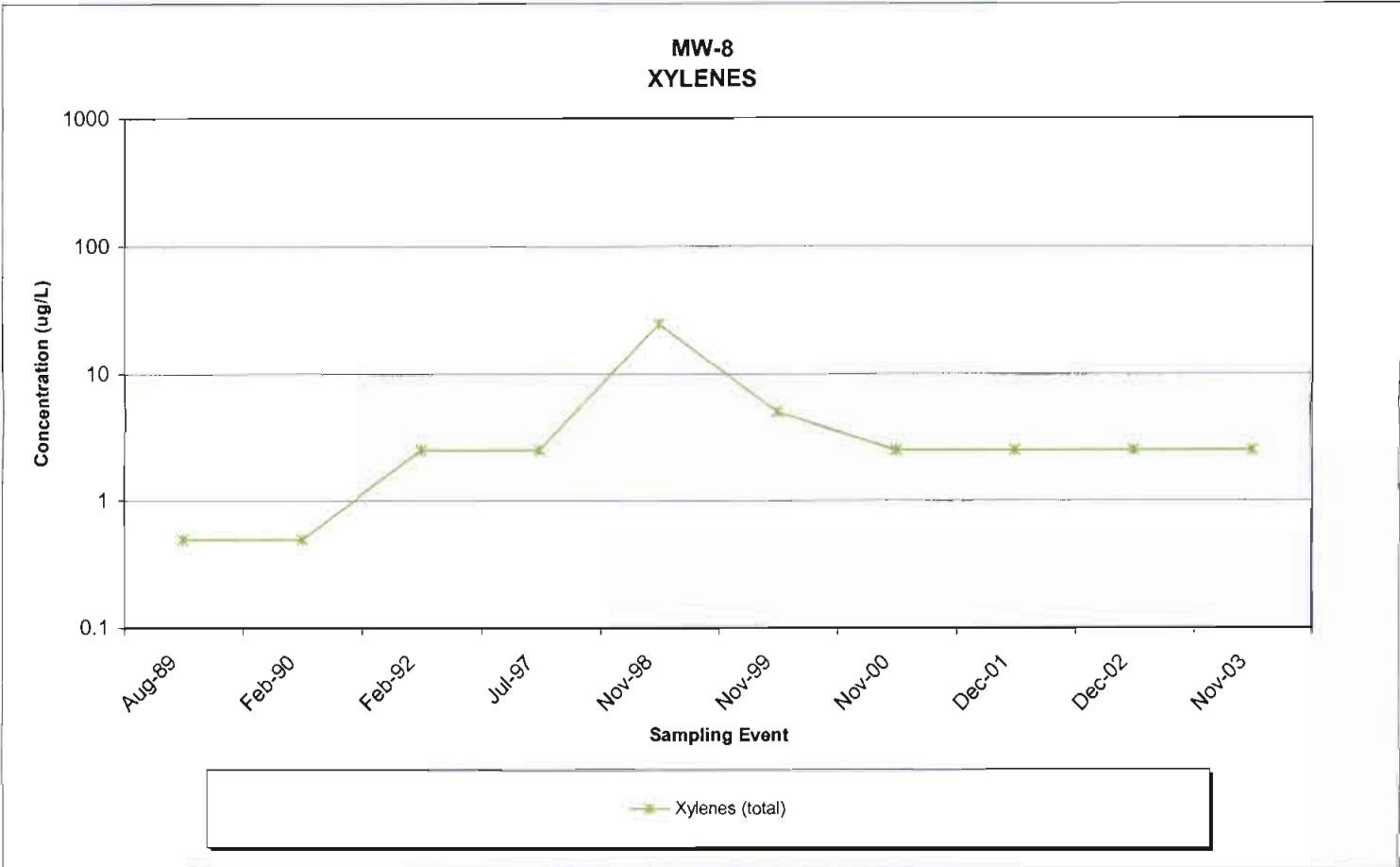
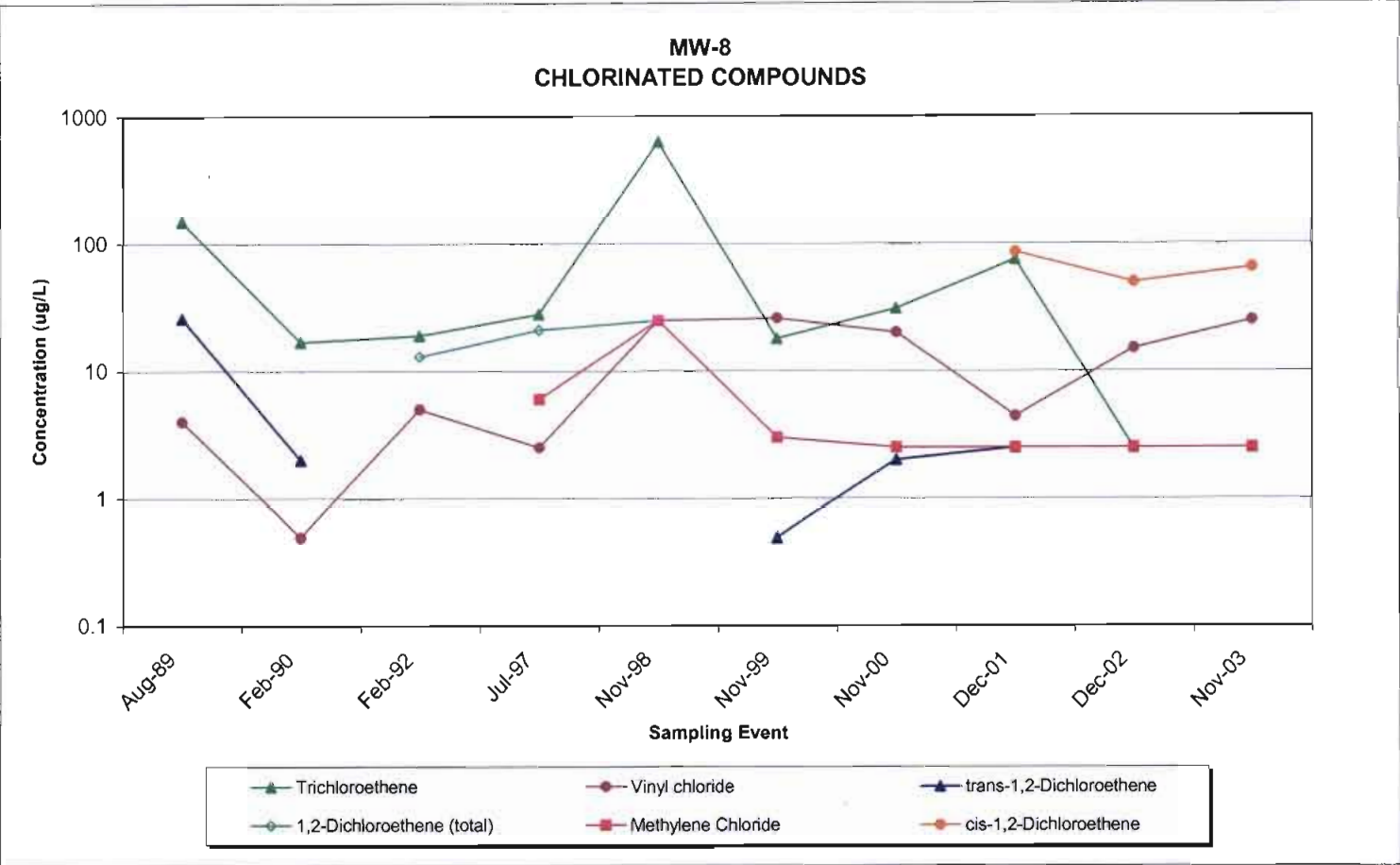


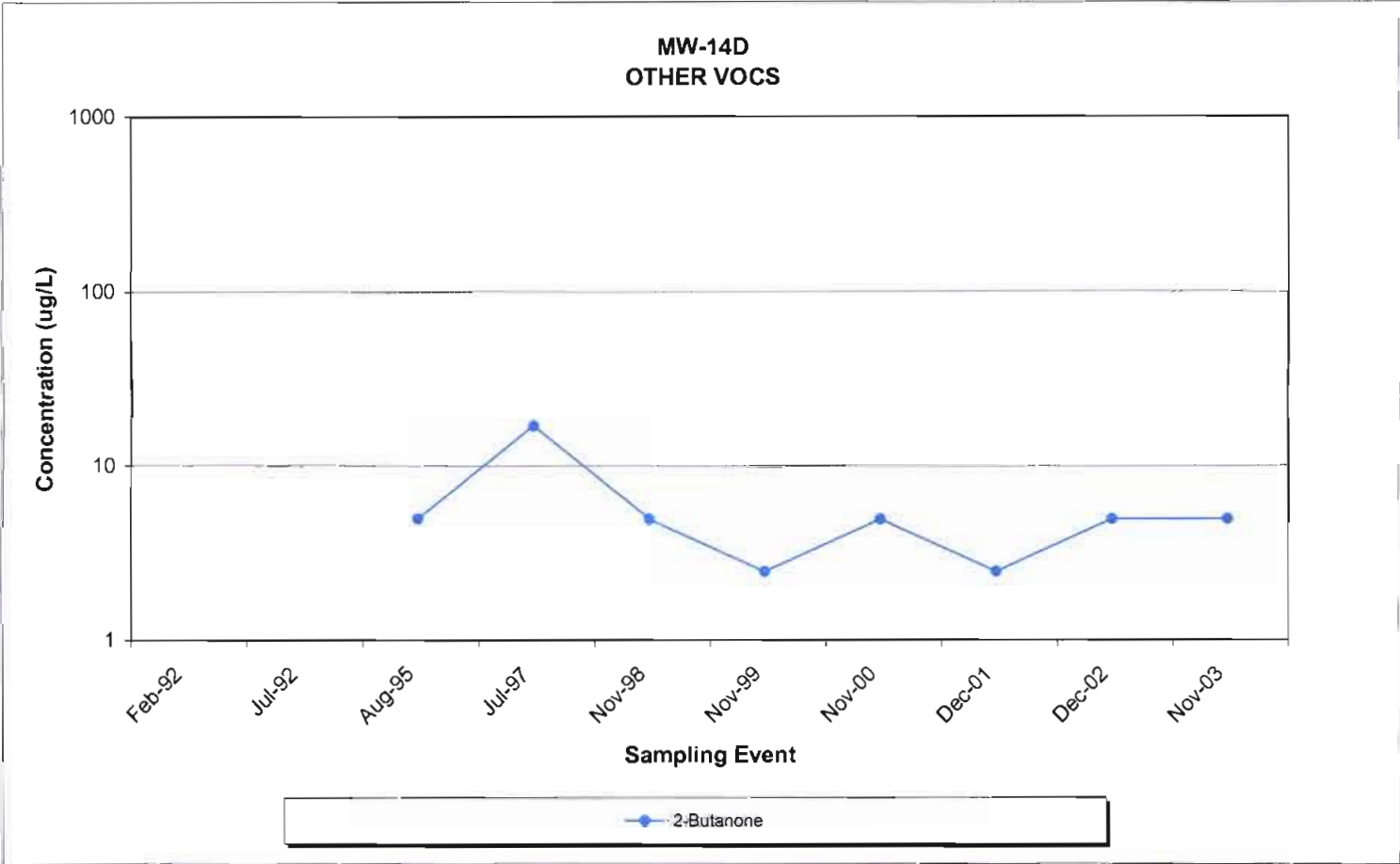
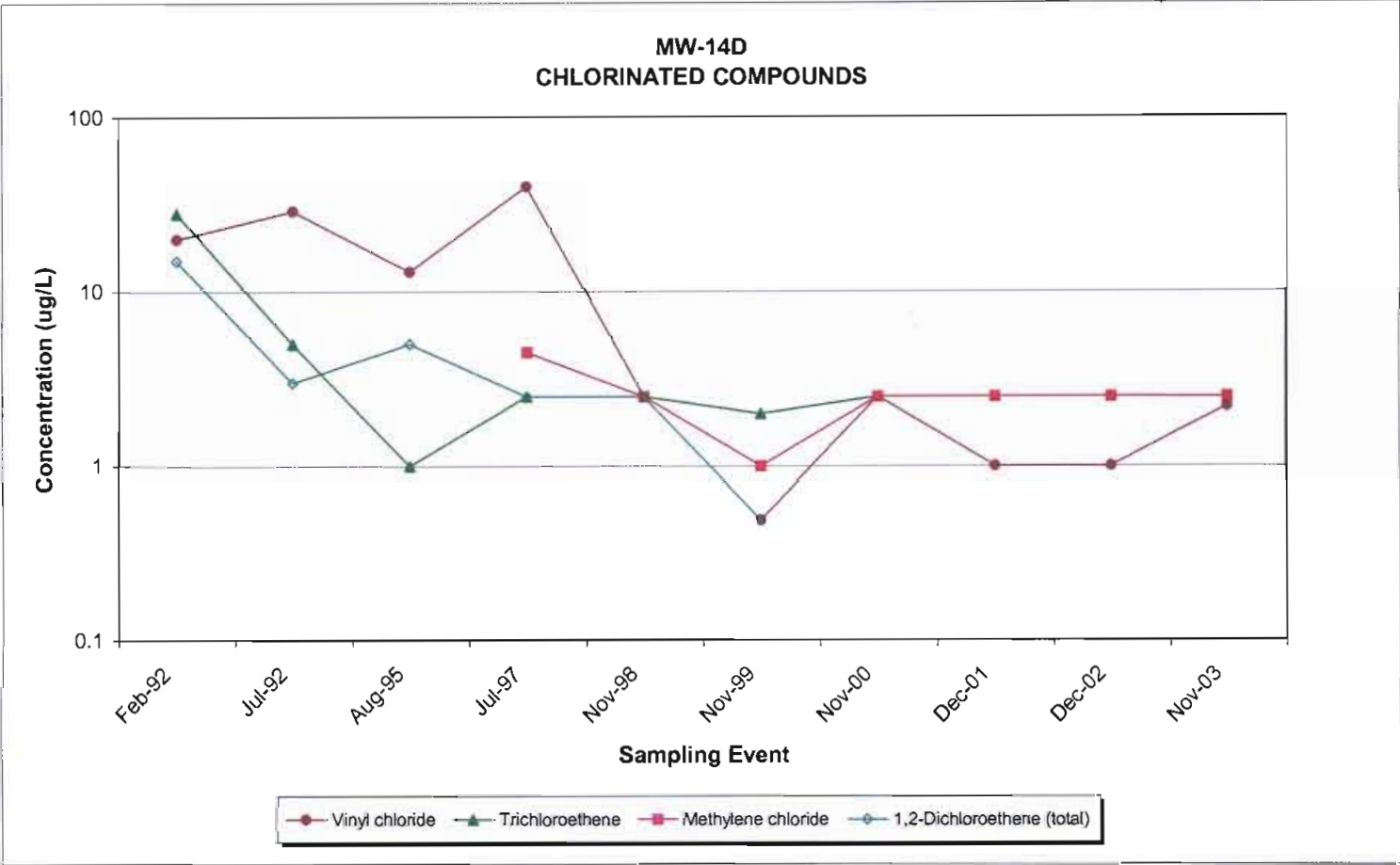


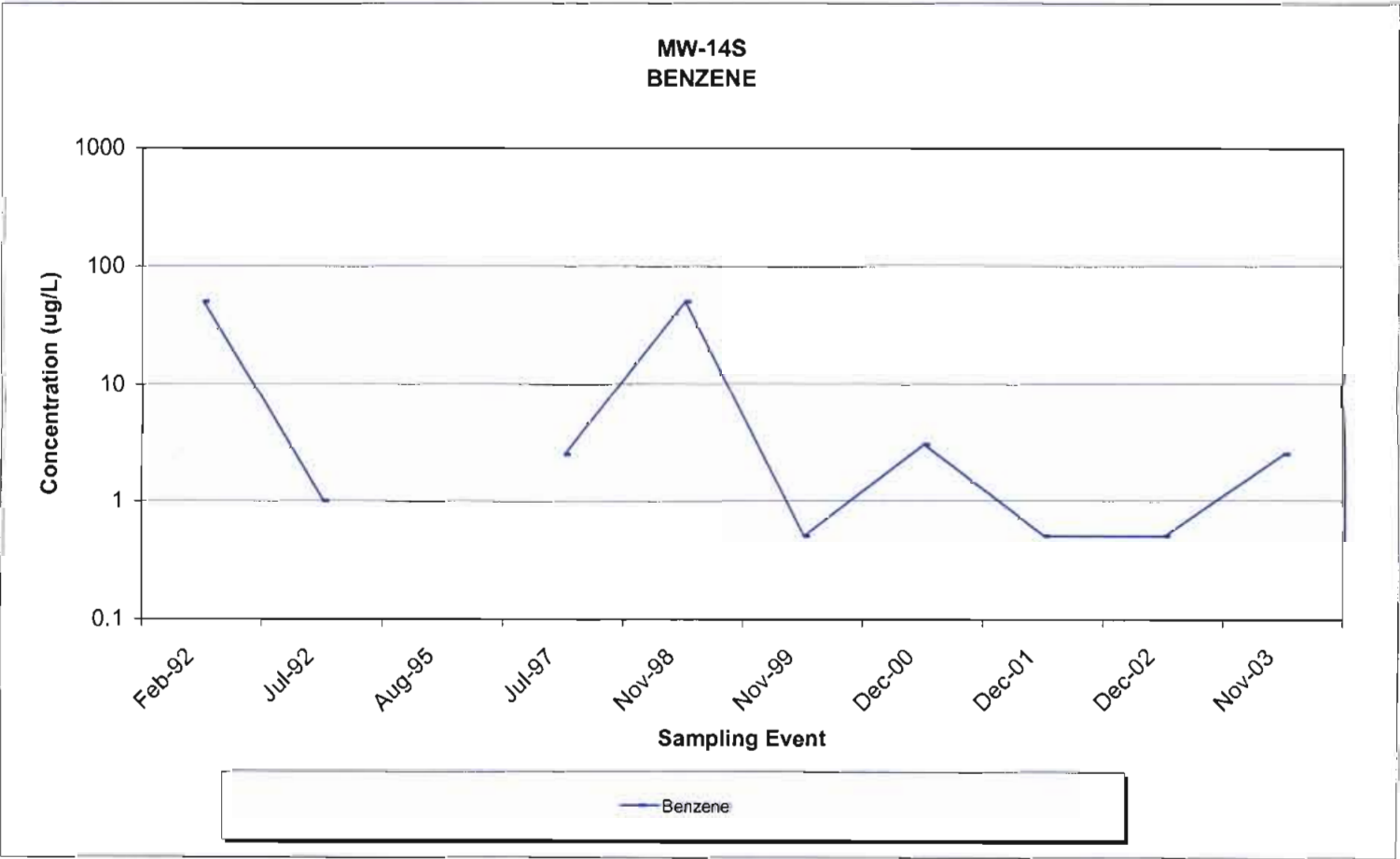
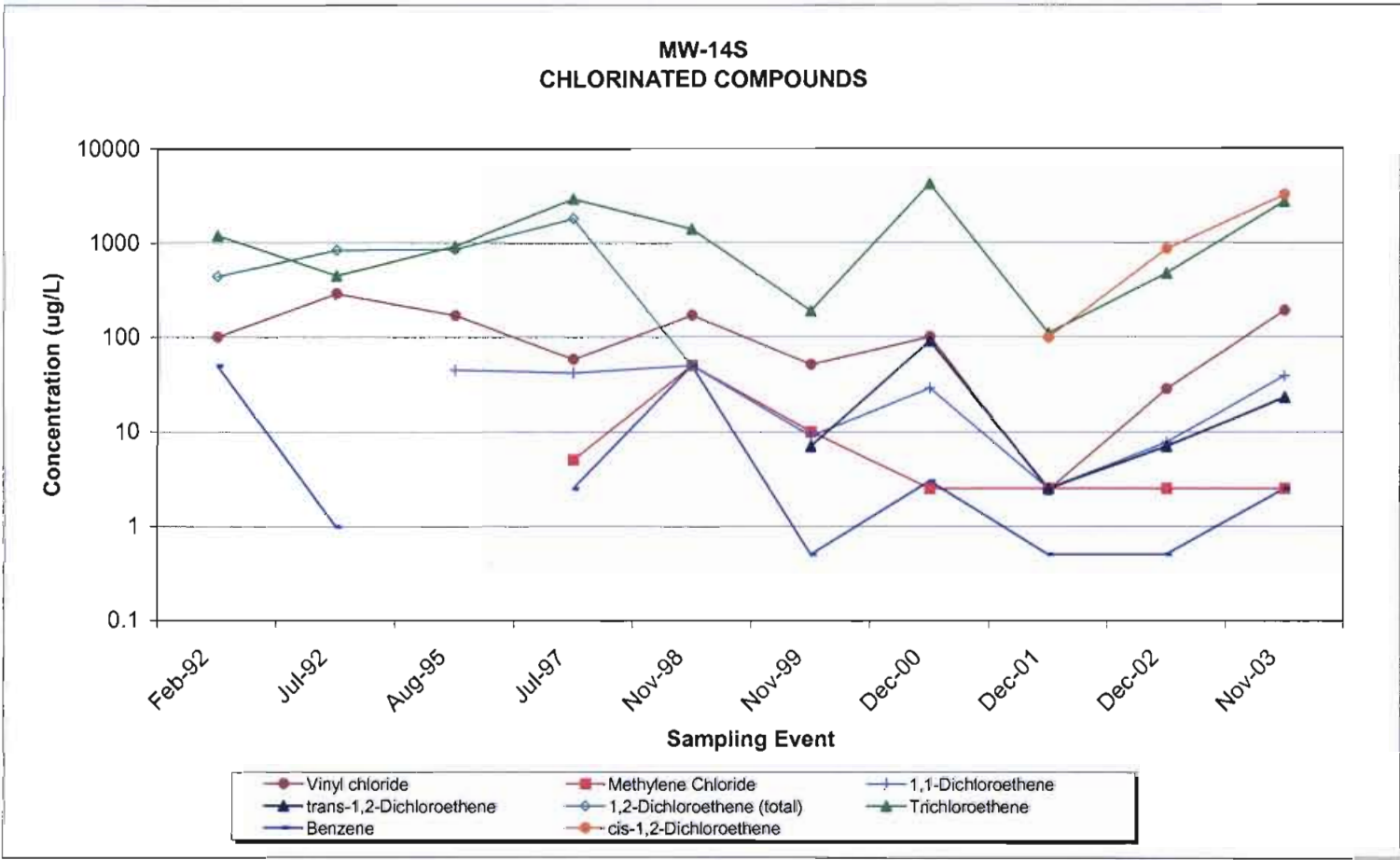


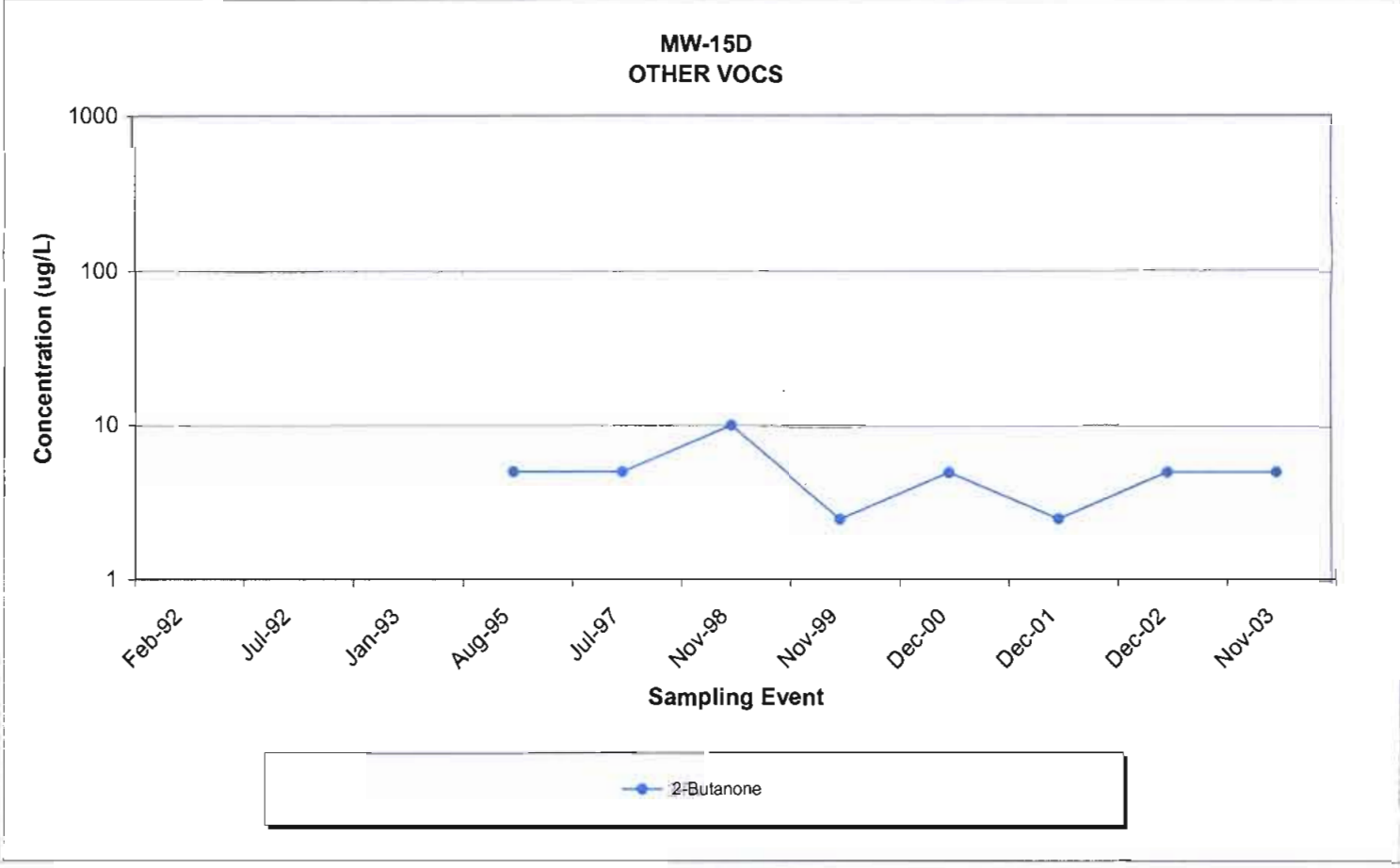
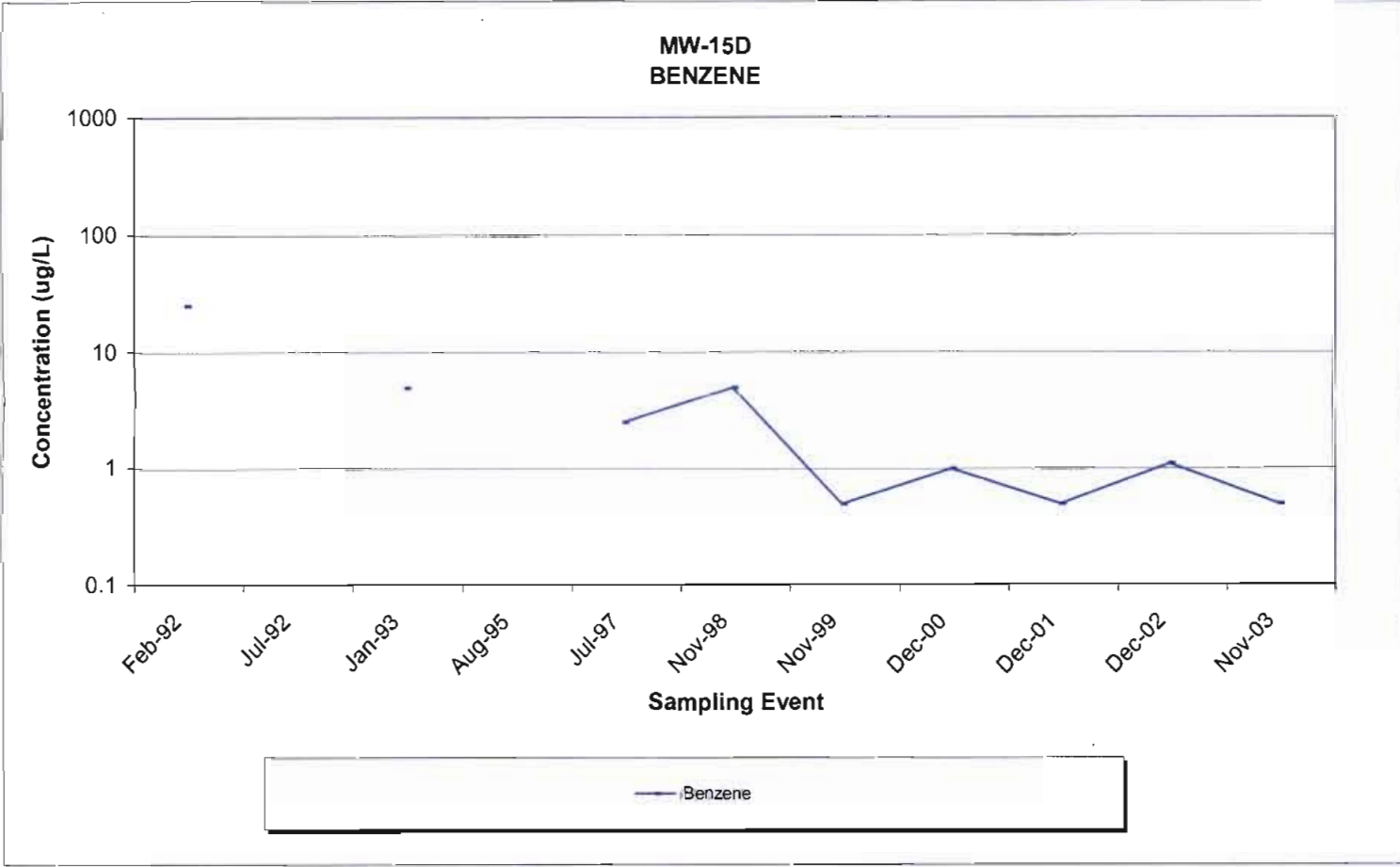
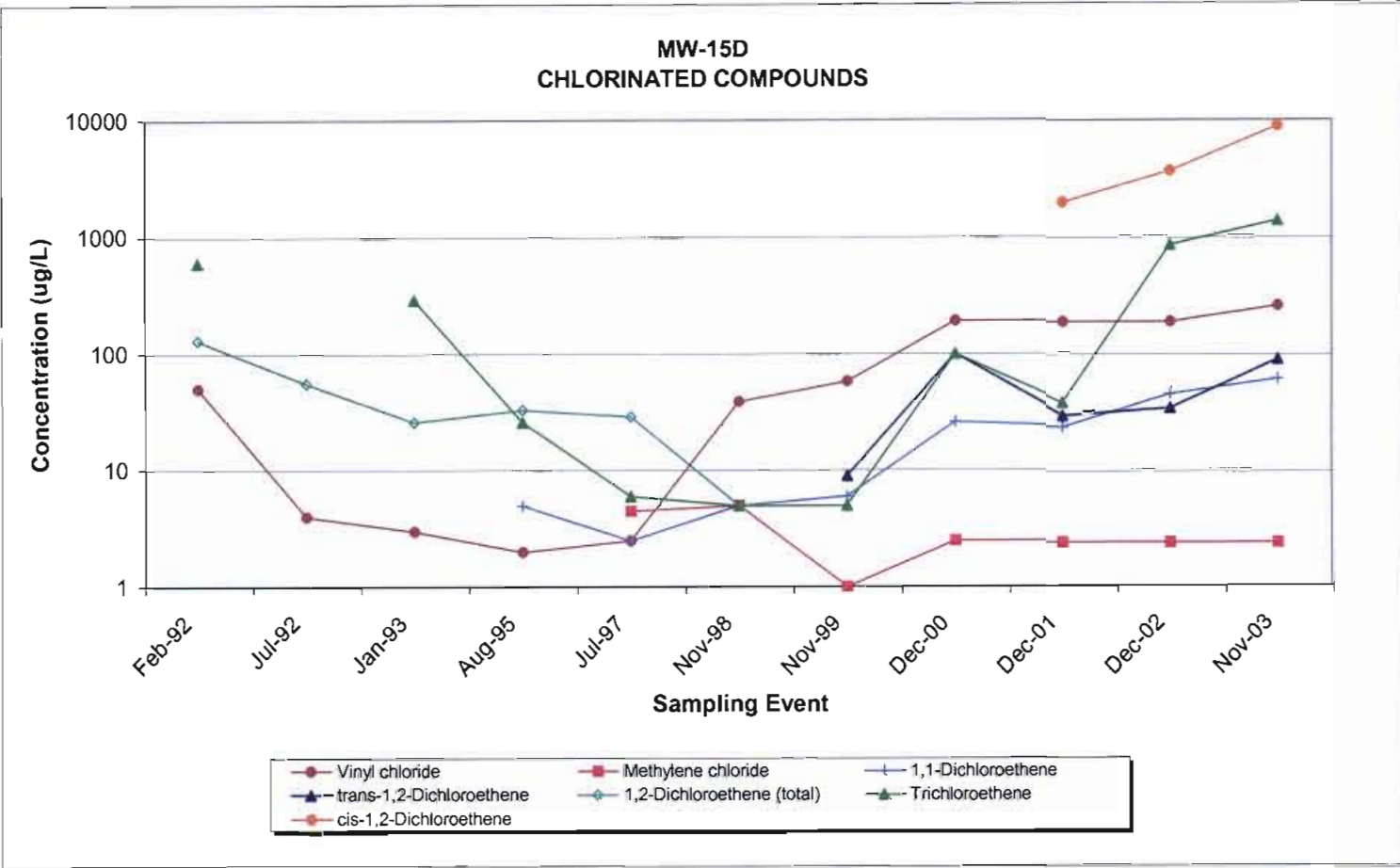


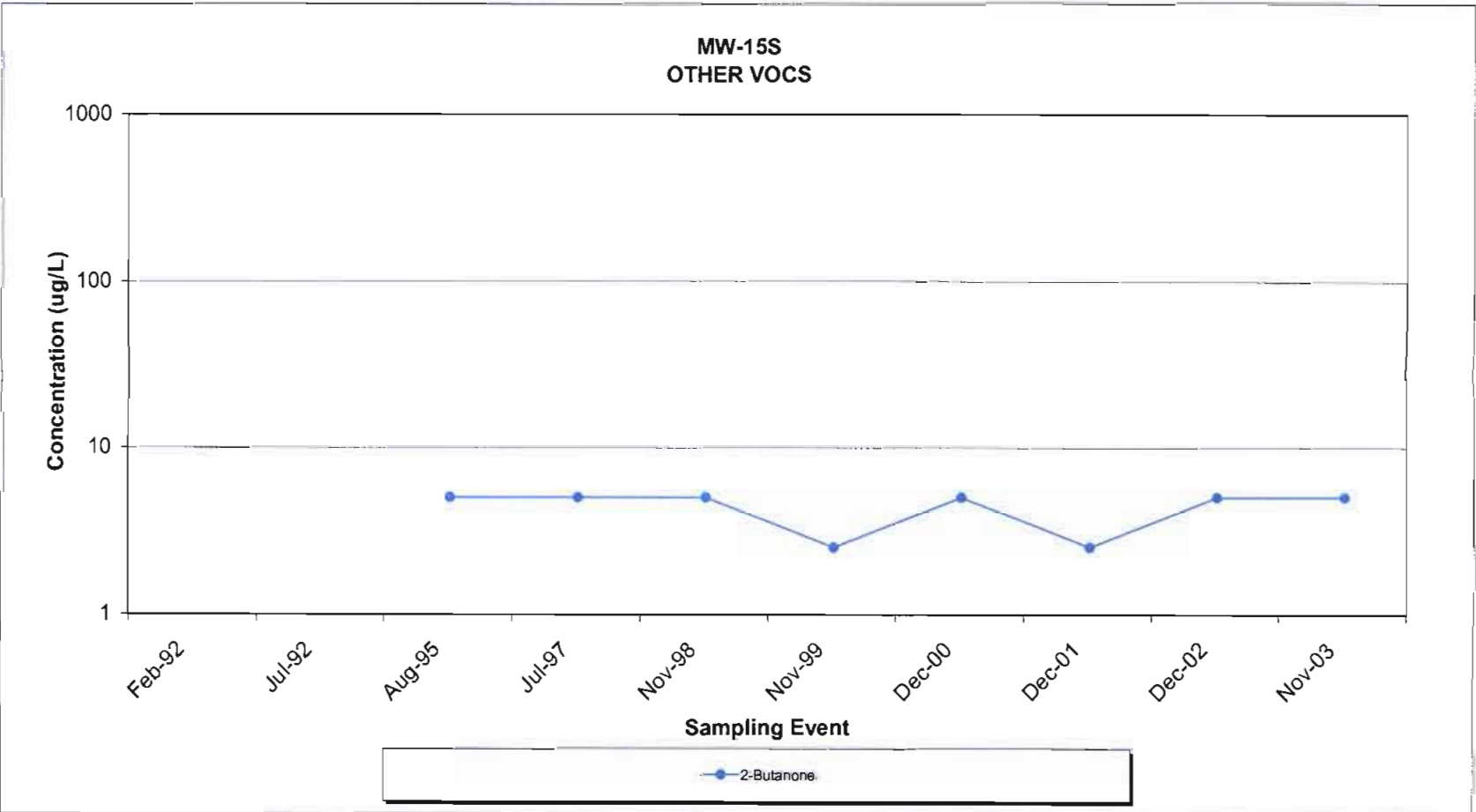
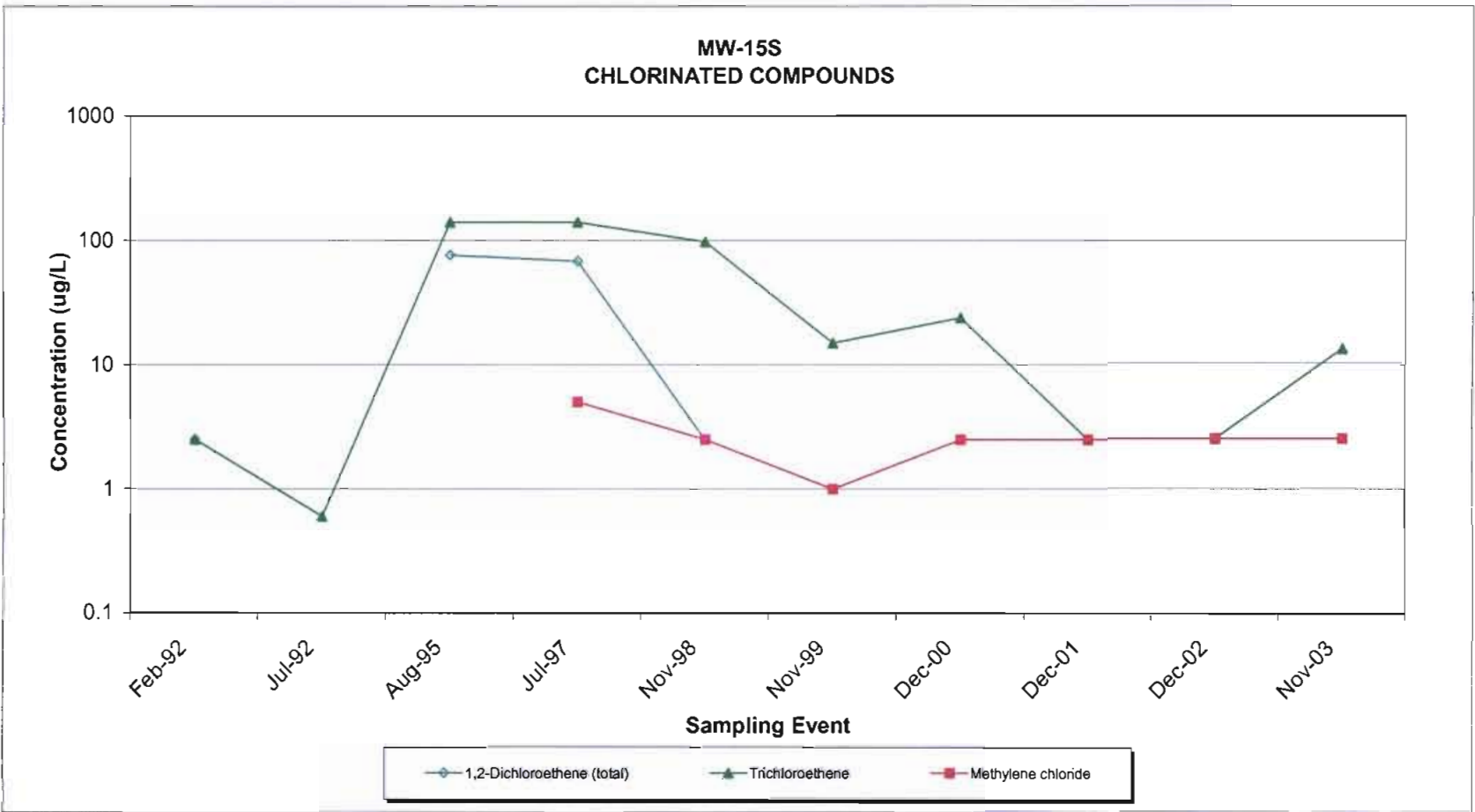


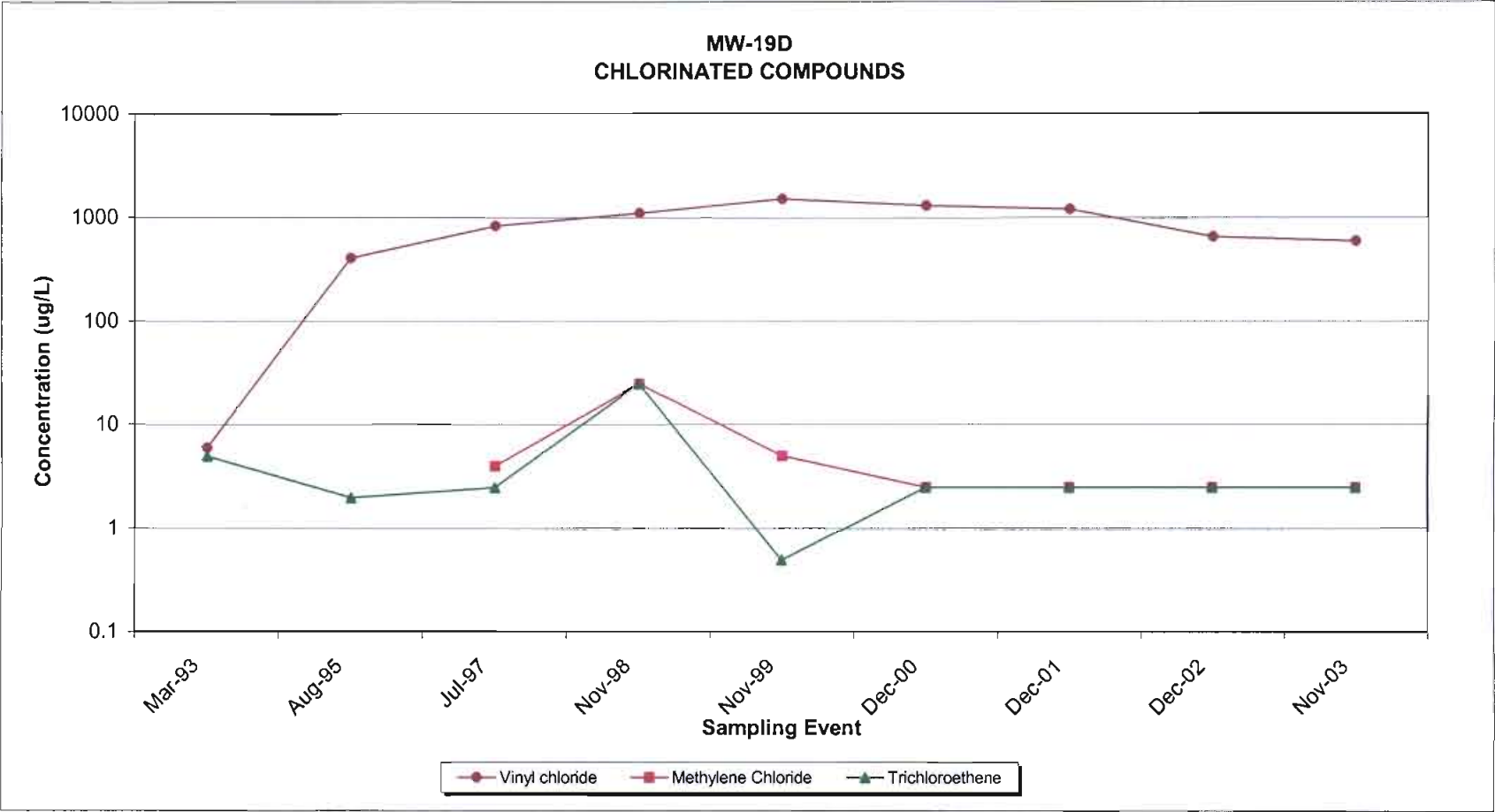


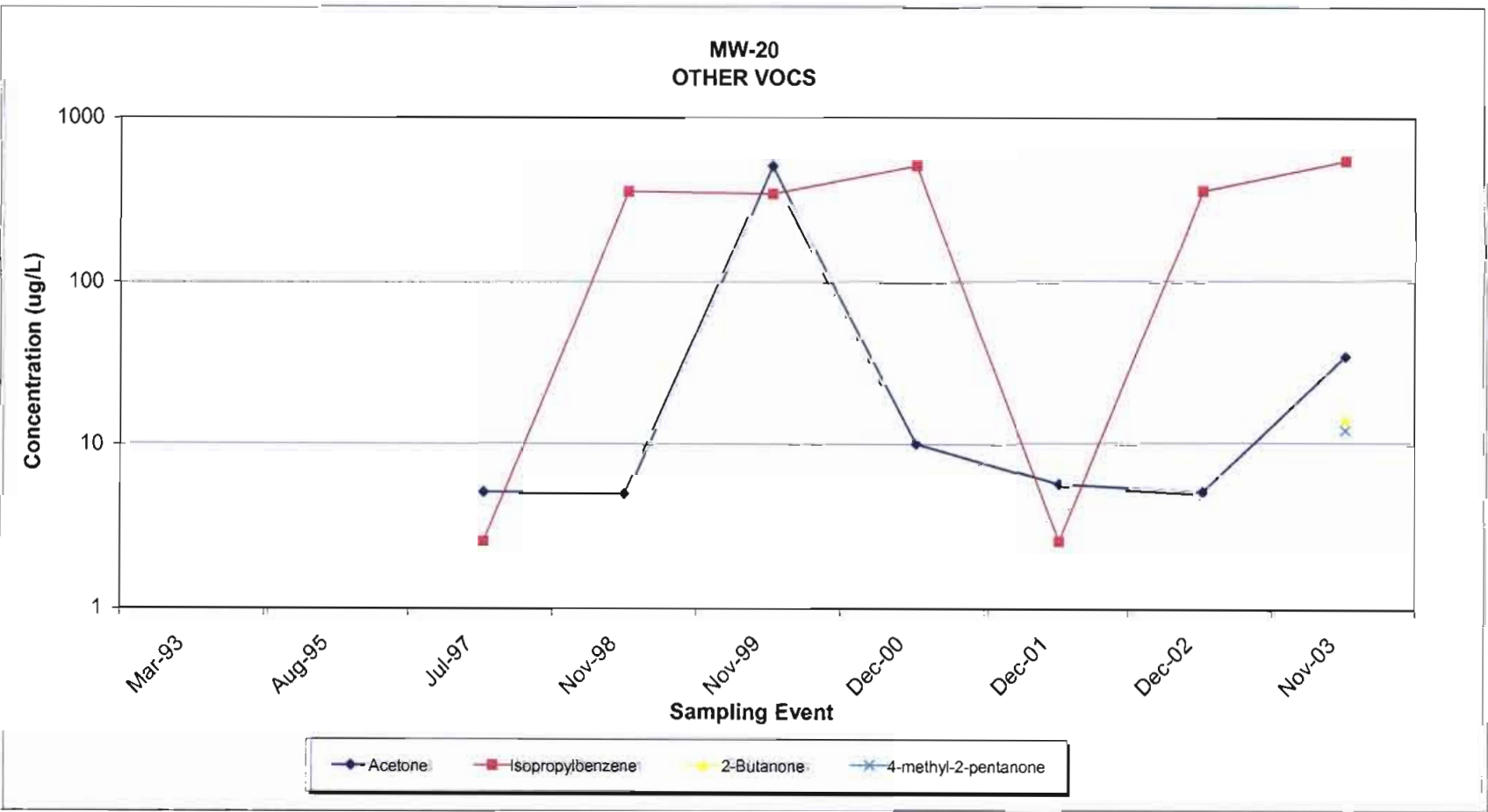
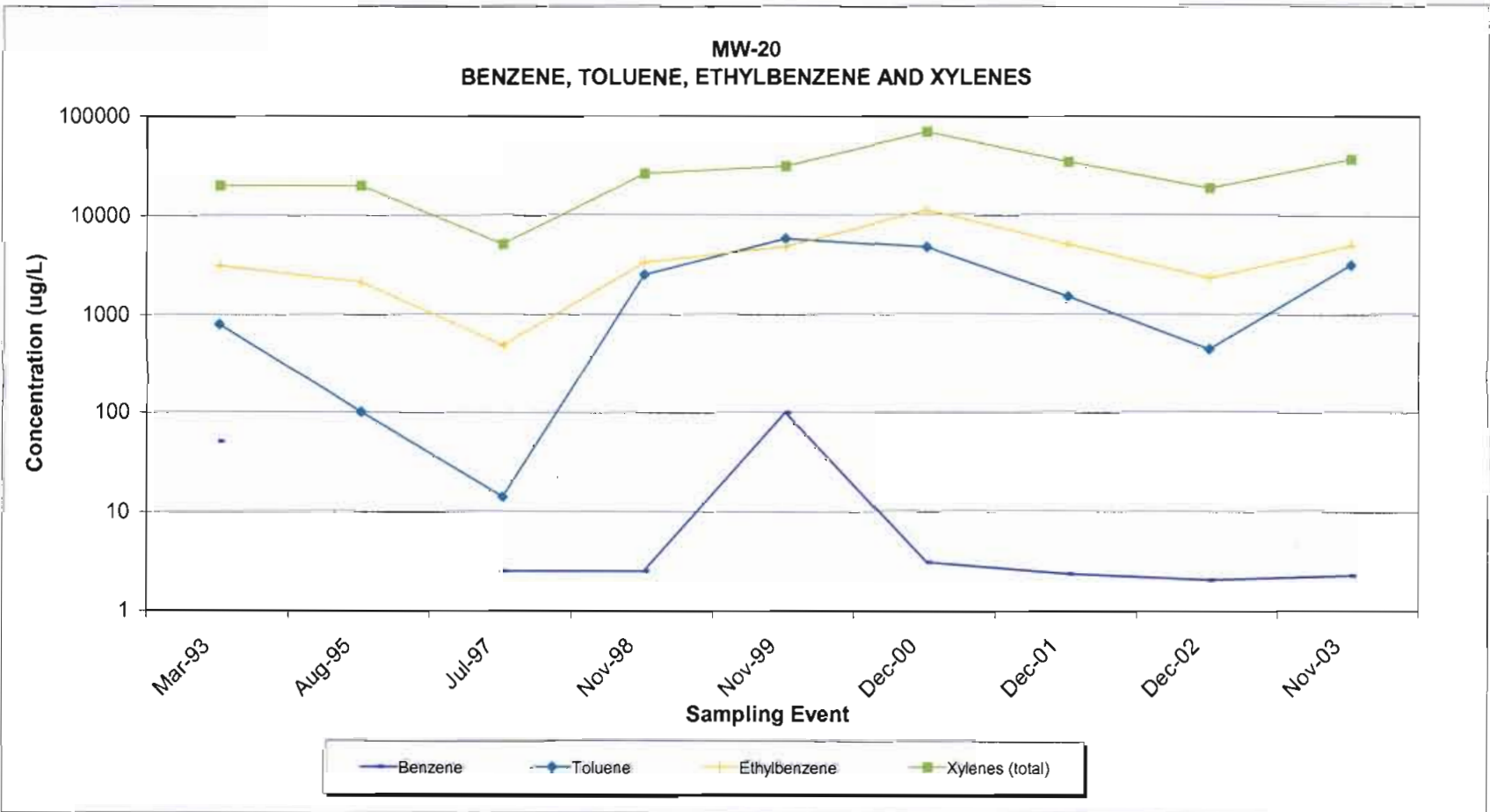
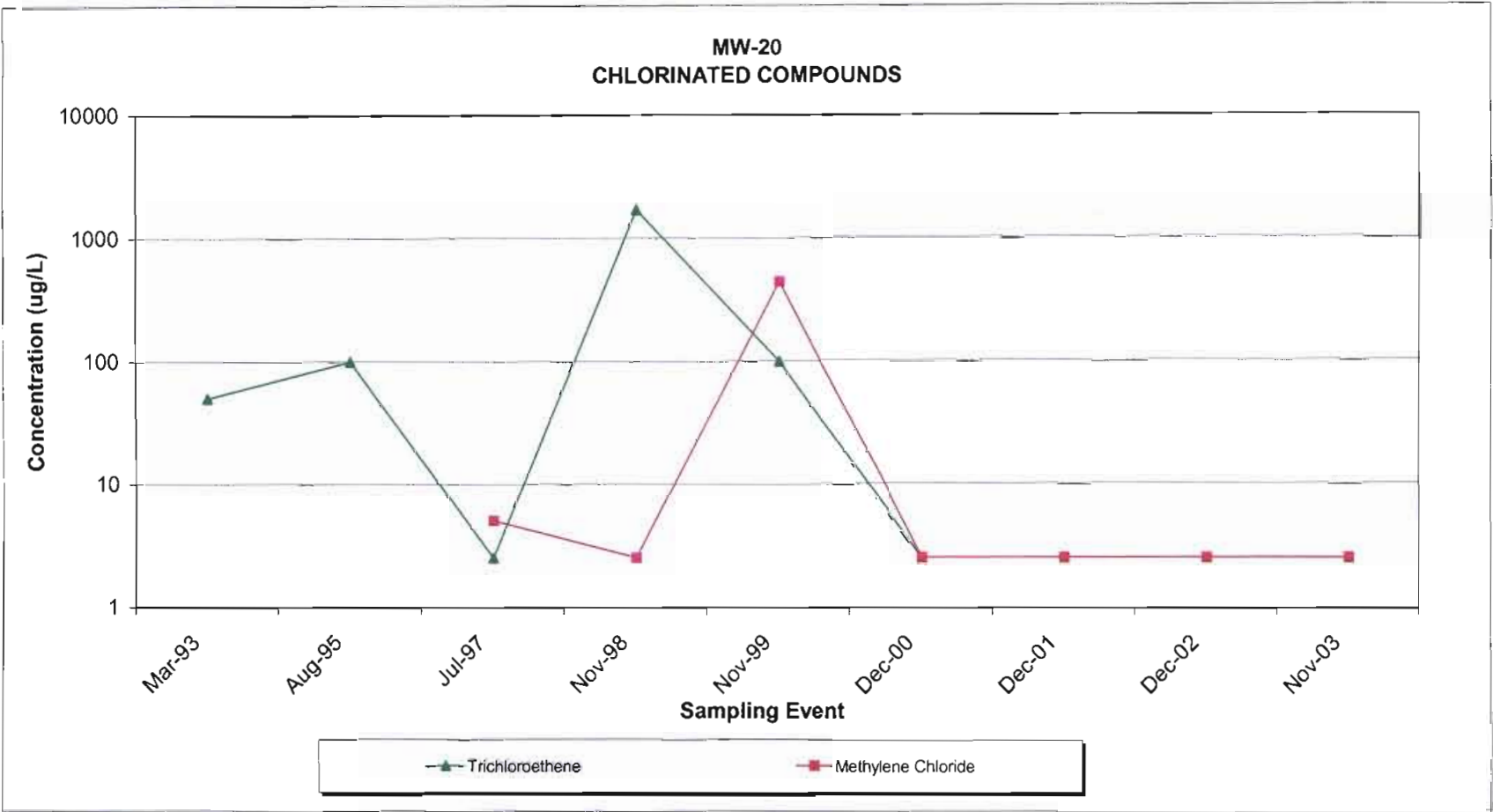












APPENDIX C

LABORATORY ANALYTICAL DATA

APPENDIX C-1

2003 QUARTERLY RECOVERY WELL DATA

March 4, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 25, 2003. Please reference Pace project number 03-0636 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

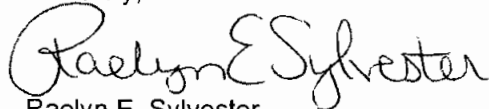
Pace Sample Identification	Client Sample Identification
0302-1400	RW-1S
0302-1401	RW-1D
0302-1402	RW-2S

Pace Sample Identification	Client Sample Identification
0302-1403	RW-2D
0302-1404	RW-3S
0302-1405	Trip Blank

General Comments: Cooler temperature 4 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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050

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0636
Lab Sample ID: 0302-1400
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.5	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1000	50	ug/l	MAK	02/27/2003	0019392-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	7.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-1400
Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	4000	50	ug/l	MAK	02/27/2003	0019392-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	120	2.0	ug/l	MAK	02/27/2003	0019381-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 03-0636
Lab Sample ID: 0302-1401
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	4.8	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1700	10	ug/l	MAK	02/28/2003	0019397-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

(Continued)

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Lab Sample ID: 0302-1401
Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	11	2.0	ug/l	MAK	02/27/2003	0019381-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

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Lab Project ID: 03-0636
Lab Sample ID: 0302-1402
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	120	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

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Lab Sample ID: 0302-1402
Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	340	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	6.4	2.0	ug/l	MAK	02/27/2003	0019381-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-0636
Lab Sample ID: 0302-1403
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	9.7	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	26	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6000	50	ug/l	MAK	02/27/2003	0019392-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	26	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

(Continued)

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Lab Sample ID: 0302-1403

Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	490	50	ug/l	MAK	02/27/2003	0019392-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1100	100	ug/l	MAK	02/27/2003	0019392-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-0636
Lab Sample ID: 0302-1404
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	40	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	150	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-1404
Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/27/2003	0019381-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	110	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	42	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0636
Lab Sample ID: 0302-1405
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/22/2003
Date Received: 02/25/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	02/27/2003	0019381-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	02/27/2003	0019381-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-1405
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	02/27/2003	0019381-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	02/27/2003	0019381-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section A

Required Client Information:
Report To: **Keith Dettrill**

Copy To:

Invoice To:

P.O.:

Project Name:

Project Number:

801419.2030

Section B

Client Information (Check quote/contract):

Requested Due Date:

*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Section C

To Be Completed by Pace Analytical and Client

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

8260 WDCS

Section D

Required Client Information:

Project Name:

Project Number:

801419.2030

Project Name:

Project Number:

801419.2030

Section D

Required Client Information:

SAMPLE ID

One character per box.
(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
WATER WT
SOIL SL
OIL OL
WIPE WP
AIR AR
TISSUE TS
OTHER OT

MATRIX CODE

DATE COLLECTED
mm / dd / yy

TIME COLLECTED
hh, mm a/p

Containers

Preservatives
Unpreserved
H₂SO₄
HNO₃
HCl
NaOH
Na₂S₂O₃
Methanol
Other

Remarks / Lab ID

02-1400

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May 29, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on May 20, 2003. Please reference Pace project number 03-1878 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

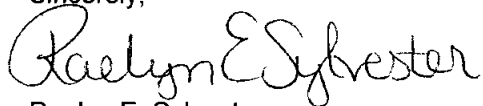
Pace Sample Identification	Client Sample Identification
0305-1455	RW1D
0305-1456	RW1S
0305-1457	RW2S

Pace Sample Identification	Client Sample Identification
0305-1458	RW2D
0305-1459	RW3S
0305-1460	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1878
Lab Sample ID: 0305-1455
Client Sample ID: RW1D
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Benzene	8260B ⁽¹⁾	7.6	1.0	ug/l	MAK	05/21/2003	0021402-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2200	20	ug/l	MAK	05/22/2003	0021454-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-1455
Client Sample ID: RW1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichloroethene	8260B ⁽¹⁾	46	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/21/2003	0021402-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1878
Lab Sample ID: 0305-1456
Client Sample ID: RW1S
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/21/2003	0021402-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	190	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

(Continued)

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Lab Sample ID: 0305-1456
Client Sample ID: RW1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1400	10	ug/l	MAK	05/22/2003	0021454-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	26	2.0	ug/l	MAK	05/21/2003	0021402-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-1878
Lab Sample ID: 0305-1457
Client Sample ID: RW2S
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/21/2003	0021402-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

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Lab Sample ID: 0305-1457
Client Sample ID: RW2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichloroethene	8260B ⁽¹⁾	69	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/21/2003	0021402-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-1878
Lab Sample ID: 0305-1458
Client Sample ID: RW2D
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	05/21/2003	0021402-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5000	50	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	21	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/21/2003	0021402-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

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Lab Sample ID: 0305-1458
Client Sample ID: RW2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichloroethene	8260B ⁽¹⁾	840	50	ug/l	MAK	05/21/2003	0021402-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	960	100	ug/l	MAK	05/21/2003	0021402-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/21/2003	0021402-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-1878
Lab Sample ID: 0305-1459
Client Sample ID: RW3S
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
Benzene	8260B ⁽¹⁾	10	1.0	ug/l	MAK	05/22/2003	0021429-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Cumene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	42	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-1459

Client Sample ID: RW3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/22/2003	0021429-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	110	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
o-Xylene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1878
Lab Sample ID: 0305-1460
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/17/2003
Date Received: 05/20/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	28	10	ug/l	MAK	05/22/2003	0021429-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/22/2003	0021429-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/22/2003	0021429-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0

(Continued)

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Lab Sample ID: 0305-1460

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/22/2003	0021429-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/22/2003	0021429-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Section D		Required Client Information:		Valid Matrix Codes		Matrix Code		DATE COLLECTED		TIME COLLECTED		# Containers		Preservatives		Remarks / Lab ID								
ITEM #	SAMPLE ID	One character per box. (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE	MATRIX	CODE	WT	SL	OL	WP	AR	TS	OT	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		
1	RW1D													5-17-03	0900	3			X					05-1455
2	RW1S													5-17-03	0920	3			X					1456
3	RW2S													5-17-03	0940	3			X					1457
4	RW2D													5-17-03	1000	3			X					1458
5	RW3S													5-17-03	1020	3			X					1459
6	TR1P BLANK															3			X					1460
7																								
8																								
9																								
10																								
11																								
12																								

Company: URS Corp

Address: 4955 Steubenville Pkwy

Twin Tower Suite 250

Phone: 412-788-2717

Fax: 412-788-2717

Copy To: URS Corp

Invoice To: URS Corp

P.O.:

Project Name: PHSburg, PA 15205

Project Number: 412-788-2717

Client Information (Check quote/contract):

Requested Due Date: 03-1878

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Requested Analysis:

Requested Analysis:

SHIPMENT METHOD: FED. Express

AIRBILL NO.: 839738696976

SHIPPING DATE: 5-19-03

NO. OF COOLERS: 1

RELINQUISHED BY / AFFILIATION: John D. Koe - HRS

DATE: 5-19-03

TIME: 1600

ACCEPTED BY / AFFILIATION: FED. Express

DATE: 5-19-03

TIME: 1600

SAMPLE CONDITION: Temp in °C: 2

Received on Ice: Y/N

SAMPLE NOTES

Sealed Cooler	Y/N
Samples Intact	Y/N
Additional Comments:	



STATE OF NEW YORK
DEPARTMENT OF HEALTH AND HUMAN SERVICES

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <u>John S. Ross</u>	
SIGNATURE of SAMPLER: <u>[Signature]</u>	
DATE Signed: (MM / DD / YY) <u>5-17-03</u>	

August 29, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on August 15, 2003. Please reference Pace project number 03-3286 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0308-1214	RW-1S
0308-1215	RW-1D
0308-1216	RW-2S

Pace Sample Identification	Client Sample Identification
0308-1217	RW-2D
0308-1218	RW-3S
0308-1219	Trip Blank

General Comments: Cooler temperature 10 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: vlt

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3286
Lab Sample ID: 0308-1214
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.8	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	970	50	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	8.1	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0308-1214

Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	3900	50	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	41	2.0	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3286
Lab Sample ID: 0308-1215
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1600	50	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

(Continued)

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Lab Sample ID: 0308-1215

Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	37	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-3286
Lab Sample ID: 0308-1216
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	140	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

(Continued)

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Lab Sample ID: 0308-1216

Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	390	10	ug/l	CMS	08/19/2003	0023594-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2.8	2.0	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-3286
Lab Sample ID: 0308-1217
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	9.2	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	22	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4500	50	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	29	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

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Lab Sample ID: 0308-1217

Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	600	50	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1000	100	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-3286
Lab Sample ID: 0308-1218
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	17	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	33	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

(Continued)

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Lab Sample ID: 0308-1218

Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: **03-3286**
Lab Sample ID: **0308-1219**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 08/14/2003
Date Received: 08/15/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	24	10	ug/l	MAK	08/18/2003	0023527-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	08/18/2003	0023527-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	08/18/2003	0023527-1	<10
Methylene chloride	8260B ⁽¹⁾	89	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0308-1219
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	08/18/2003	0023527-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	08/18/2003	0023527-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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January 8, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 23, 2003. Please reference Pace project number 03-5508 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

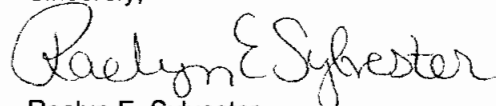
Pace Sample Identification	Client Sample Identification
0312-2189	RW-1S
0312-2190	RW-1D
0312-2191	RW-2S

Pace Sample Identification	Client Sample Identification
0312-2192	RW-2D
0312-2193	RW-3S
0312-2194	TRIP BLANK

General Comments: Cooler temperature 7 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Analytical Services, Inc.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 03-5508
Lab Sample ID: 0312-2189
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1900	50	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-2189
Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	280	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	9.3	2.0	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5508
Lab Sample ID: 0312-2190
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	40	10	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

(Continued)

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Lab Sample ID: 0312-2190
Client Sample ID: RW-1D

Volatiles (Cont.)

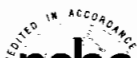
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	39	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5508
Lab Sample ID: 0312-2191
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	12	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-2191
Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5508
Lab Sample ID: 0312-2192
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	8.3	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3900	50	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

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Lab Sample ID: 0312-2192
Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	400	50	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	100	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5508
Lab Sample ID: 0312-2193
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

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Lab Sample ID: 0312-2193
Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	97	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Analytical Services, Inc.
5203 Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 03-5508
Lab Sample ID: 0312-2194
Client Sample ID: TRIP BLANK
Sample Matrix: Aqueous

Date Sampled: 12/21/2003
Date Received: 12/23/2003

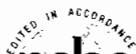
Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	19	10	ug/l	JEC	01/02/2004	0027004-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	01/02/2004	0027004-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	01/02/2004	0027004-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

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Lab Sample ID: 0312-2194
Client Sample ID: TRIP BLANK

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	01/02/2004	0027004-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	01/02/2004	0027004-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Required Client Information: Section A		Required Client Information: Section B	
Company: URS	Report To: Keith Dodrill	Copy To:	
Address: 4955 Steubenville Pike	Invoice To:		
Twin Towers Suite 250	P.O.:		
Pittsburgh, PA 15205	Project Name: Essex-Hope		
Phone: 412-788-7117	Project Number: 801419-2030		
Fax:			

Page: **1** of **1**

729087

Section C

To Be Completed by Pace Analytical and Client	Quote Reference:
Project Manager:	
Project #:	03-5508
Profile #:	

Requested Analysis:	
Remarks / Lab ID	82602

Section D Required Client Information:

SAMPLE ID

One character per box.
(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes	MATRIX CODE	Preservatives									
		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		
MATRIX	CODE	WT	SL	OL	WP	AR	TS	OT			
WATER											
SOIL											
OIL											
WIPE											
AIR											
TISSUE											
OTHER											

ITEM #	SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	REMARKS / Lab ID
1	RW-1S											0312 2129
2	RW-1D											2190
3	RW-2S											2191
4	RW-2D											2192
5	RW-3S											2193
6	TRIP BLANK											2194
7												
8												
9												
10												
11												
12												

SAMPLE NOTES

4th Quarter Samples

Temp in °C	7
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:	John S. Ross
SIGNATURE of SAMPLER:	<i>John S. Ross</i>

DATE Signed: **12-21-03**

APPENDIX C-2

2003 ANNUAL PMP MONITORING WELL DATA

November 25, 2003

Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 12, 2003. Please reference Pace project number 03-4885 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419

Pace Sample Identification	Client Sample Identification
0311-1259	MW-14D
0311-1260	MW-15S
0311-1261	MW-6
0311-1262	MW-8

Pace Sample Identification	Client Sample Identification
0311-1263	MW-2
0311-1264	MW-7S
0311-1265	MW-20
0311-1266	TB-01

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1259
Client Sample ID: MW-14D
Sample Matrix: Aqueous

Date Sampled: 11/10/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1259
Client Sample ID: MW-14D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	2.2	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1260
Client Sample ID: MW-15S
Sample Matrix: Aqueous

Date Sampled: 11/10/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-1260

Client Sample ID: MW-15S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1261
Client Sample ID: MW-6
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1261

Client Sample ID: MW-6

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1262
Client Sample ID: MW-8
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	65	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1262

Client Sample ID: MW-8

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	25	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1263
Client Sample ID: MW-2
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	3.5	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	5.1	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1263

Client Sample ID: MW-2

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1264
Client Sample ID: MW-7S
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1264
Client Sample ID: MW-7S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	6.6	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-4885
Lab Sample ID: 0311-1265
Client Sample ID: MW-20
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

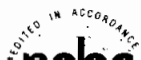
Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	34	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	2.2	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	14	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	530	50	ug/l	MAK	11/22/2003	0026067-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	4800	50	ug/l	MAK	11/22/2003	0026067-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	12	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-1265
Client Sample ID: MW-20

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	3100	50	ug/l	MAK	11/22/2003	0026067-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	32000	100	ug/l	MAK	11/22/2003	0026067-1	<5.0
o-Xylene	8260B ⁽¹⁾	3800	50	ug/l	MAK	11/22/2003	0026067-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4885
Lab Sample ID: 0311-1266
Client Sample ID: TB-01
Sample Matrix: Aqueous

Date Sampled: 11/11/2003
Date Received: 11/12/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/18/2003	0025943-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/22/2003	0026067-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/18/2003	0025943-1	<10
Methylene chloride	8260B ⁽¹⁾	5.8	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0

(Continued)

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Lab Sample ID: 0311-1266
Client Sample ID: TB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/22/2003	0026067-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/18/2003	0025943-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/18/2003	0025943-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/22/2003	0026067-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/22/2003	0026067-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Required Client Information: Section A

Company: **URS CORP**

Address: **TWIN TOWERS STE. 250**

4955 STEUBENVILLE AVE

PITTSBURGH, PA 15205

Phone: **412-768-2777** Fax: **412-768-1318**

Report To: MARK DOWIAK

Copy To: **KEITH DODRILL**

Invoice To: **SAME**

P.O. **801419**

Project Name: **ESSEX HOPE**

Project Number: **801419**

Page: 1 of 1

To Be Completed by Pace Analytical and Client
729111
Section C

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

Section D Required Client Information:

SAMPLE ID

One character per box.
(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
	M	W	-	1	4	D						
	M	W	-	1	5	S						
	M	W	-	6								
	M	W	-	8								
	M	W	-	2								
	M	W	-	7	S							
	M	W	-	2	0							
	T	B	-	0	1							

Valid Matrix Codes

MATRIX CODE	WATER	SOIL	WASTE	AIR	TISSUE	OTHER
WT						
SL						
OL						
WP						
AR						
TS						
OT						

Preservatives

DATE COLLECTED	TIME COLLECTED	Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₃	Methanol	Other
11/10/03	1435	3				X				
11/10/03	1600	3				X				
11/10/03	0940	3				X				
11/10/03	1035	3				X				
11/10/03	1210	3				X				
11/10/03	1355	3				X				
11/11/03	1535	3				X				
11/10/03	-	3				X				

DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
11/10/03	1435	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/10/03	1600	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/10/03	0940	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/10/03	1035	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/10/03	1210	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/10/03	1355	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815
11/11/03	1535	Valerie Adams	11/11/03	1815	FEDERAL EXPRESS	11/11/03	1815
11/10/03	-	Valerie Adams	11/10/03	1815	FEDERAL EXPRESS	11/10/03	1815

Section E Required Client Information:

SHIPMENT METHOD: **FED EX #841073043831**

AIRBILL NO.:

SHIPPING DATE: **11/10/03**

NO. OF COOLERS: **1**

SAMPLE NOTES

Temp in °C: **2**

Received on Ice: **YN**

Sealed Cooler: **YN**

Samples Intact: **YN**

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **VALERIE SIBERT**

SIGNATURE of SAMPLER: *Valerie Adams*

DATE Signed: (MM / DD / YY) **11/11/03**

November 26, 2003

Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dowiak:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 17, 2003. Please reference Pace project number 03-4952 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419

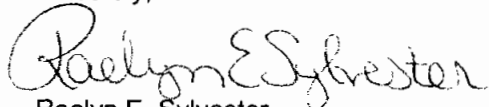
Pace Sample Identification	Client Sample Identification
0311-1656	FB-01
0311-1657	MW-19D
0311-1658	MW-14S
0311-1659	MW-15D

Pace Sample Identification	Client Sample Identification
0311-1660	MW-7D
0311-1661	DUP-01
0311-1662	TB-02

General Comments: Cooler temperature 3 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4952
Lab Sample ID: 0311-1656
Client Sample ID: FB-01
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/20/2003	0026012-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-1656
Client Sample ID: FB-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/20/2003	0026012-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4952
Lab Sample ID: 0311-1657
Client Sample ID: MW-19D
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/20/2003	0026012-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/20/2003	0026012-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0

(Continued)

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Lab Sample ID: 0311-1657

Client Sample ID: MW-19D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	600	20	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/20/2003	0026012-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-4952
Lab Sample ID: 0311-1658
Client Sample ID: MW-14S
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Benzene	8260B ⁽¹⁾	2.5	1.0	ug/l	MAK	11/25/2003	0026163-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	39	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

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Lab Sample ID: 0311-1658
Client Sample ID: MW-14S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichloroethene	8260B ⁽¹⁾	2700	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-4952
Lab Sample ID: 0311-1659
Client Sample ID: MW-15D
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/25/2003	0026163-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	62	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	8900	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	91	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

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Lab Sample ID: 0311-1659

Client Sample ID: MW-15D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1400	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	260	2.0	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-4952
Lab Sample ID: 0311-1660
Client Sample ID: MW-7D
Sample Matrix: Aqueous

Date Sampled: 11/13/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Benzene	8260B ⁽¹⁾	5.6	1.0	ug/l	MAK	11/25/2003	0026163-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.1	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-1660
Client Sample ID: MW-7D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	860	100	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4952
Lab Sample ID: 0311-1661
Client Sample ID: DUP-01
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Benzene	8260B ⁽¹⁾	5.6	1.0	ug/l	MAK	11/25/2003	0026163-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.1	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2100	50	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

(Continued)

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Lab Sample ID: 0311-1661
Client Sample ID: DUP-01

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	820	100	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Mark Dowiak
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4952
Lab Sample ID: 0311-1662
Client Sample ID: TB-02
Sample Matrix: Aqueous

Date Sampled: 11/12/2003
Date Received: 11/17/2003

Client Site: Essex-Hope
Client Ref.: 801419

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/25/2003	0026163-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/25/2003	0026163-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

(Continued)

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Lab Sample ID: 0311-1662

Client Sample ID: TB-02

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/25/2003	0026163-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/25/2003	0026163-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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APPENDIX C-3

2003 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

February 13, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on February 3, 2003. Please reference Pace project number 03-0412 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0302-0394	Pre-Carb
0302-0395	Primary Effluent
0302-0396	Post-Carb
0302-0397	Trip Blank

General Comments: Cooler temperature 4.0 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0412
Lab Sample ID: 0302-0394
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	7.3	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4300	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	30	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0394
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	390	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	640	100	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0412
Lab Sample ID: 0302-0395
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1500	50	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0395
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	100	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0412
Lab Sample ID: 0302-0396
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.9	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0396
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0412
Lab Sample ID: 0302-0397
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 01/30/2003
Date Received: 02/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/05/2003	0018886-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/05/2003	0018886-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0302-0397
Client Sample ID: Trip Blank

Volatiles (Cont.)

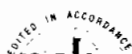
Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/05/2003	0018886-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/05/2003	0018886-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section B
Required Client Information:

Report To: Keith Dardill
Copy To:
Invoice To:
P.O.
Project Name: Essex-Hope
Project Number: 80419.2030

Section A
Required Client Information:

Company: URS Corp.
Address: Two Towers Suite 250
4955 Stearnsville Pike
Pittsburgh, PA 15205
Phone: 412 738 2717 Fax:

Page: of

Client Information (Check quote/contract):
Requested Due Date: TAT

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C
To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager: URS
Project #: 03-0412
Profile #:

Requested Analysis:

Remarks / Lab ID
03-0412

Valid Matrix Codes
MATRIX: WATER, SOIL, OIL, WIPE, AIR, TISSUE, OTHER
CODE: WT, SL, OL, WP, AR, TS, OT

Section D
Required Client Information:
SAMPLE ID
One character per box.
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

#	ITEM	DATE COLLECTED	TIME COLLECTED	# Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Remarks / Lab ID
1	PRE-CARB	1-30-03	1500	2				X					
2	PRIMARY	1-30-03	1500	1									
3	POST-CARB	1-30-03	1500	2									
4	POST-CARB	1-30-03	1530	2									
5	POST-CARB	1-30-03	1600	1									
6	POST-CARB	1-30-03	1630	1									
7	TRIP			3									
8													
9													
0													
1													
2													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FEDEX	837738697045	1-31-03	1		DR. J. Ross	1-31-03	1600	For 11	1-31-03	1600
					DR. J. Ross					

SAMPLE NOTES

Combine 4 Post-carb Samples into 1 for Analysis

SAMPLE CONDITION
Temp in °C: 40
Received on Ice: YN
Sealed Cooler: YN
Samples Intact: YN

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: John S. Ross
DATE Signed: (MM / DD / YY) 1-30-03 1700

March 17, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on March 3, 2003. Please reference Pace project number 03-0767 when inquiring about this report.

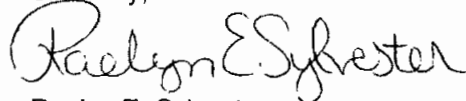
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0303-0131	Pre-Carb
0303-0132	Primary Effluent
0303-0133	Secondary Effluent
0303-0134	Post-Carb
0303-0135	Trip Blank

General Comments: Cooler temperature 4 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0767
Lab Sample ID: 0303-0131
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0303-0131
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	410	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Pittsburgh, PA 15205

Lab Project ID: 03-0767
Lab Sample ID: 0303-0132
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.3	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2000	50	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	5.5	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0303-0132
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	660	100	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0767
Lab Sample ID: 0303-0133
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2003

Date Received: 03/03/2003

Client Site: Essex-Hope

Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

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Lab Sample ID: 0303-0133
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	690	20	ug/l	MAK	03/12/2003	0019654-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-0767
Lab Sample ID: 0303-0134
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.7	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0303-0134

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-0767
Lab Sample ID: 0303-0135
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/27/2003
Date Received: 03/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/11/2003	0019625-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/11/2003	0019625-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

(Continued)

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Lab Sample ID: 0303-0135
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/11/2003	0019625-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/11/2003	0019625-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Required Client Information:		Section B	
Report To:	Keith Dodrill	Copy To:	
Company:	URS	Invoice To:	*
Address:	4955 Steubenville Pike	P.O.:	
	Two Towers Suite 250	Project Name:	Essex-Hope
	Pittsburgh PA 15205	Project Number:	801419.2030
Phone:	412 283-2717		
Fax:			

Page: of

To Be Completed by Pace Analytical and Client
Quote Reference: **691214** Section C

Client Information (Check quote/contract):
Requested Due Date: *TAT:
Project Manager:
Project #:
Profile #:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Requested Analysis:
Remarks / Lab ID

ITEM #	SAMPLE ID	Valid Matrix Codes	Required Client Information:		DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							REMARKS
			MATRIX	CODE				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	
1	PRE-CARB				WT	2-27-03	1600Z								X
2	PRIMARY-EFFLUENT						1600								
3	SECONDARY-EFFLUENT						1615								
4	POST-CARB						1615								
5	POST-CARB						1715								
6	POST-CARB						1745								
7	POST-CARB						1815								
8	TRIP-BLANKS														
9															
10															
11															
12															

SAMPLE NOTES

SHIPMENT METHOD: Fed-Express
AIRBILL NO.: 837738897001
SHIPPING DATE: 2-28-03
NO. OF COOLERS: 1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
1	John S. Ross - URS	2-28-03	1600	John S. Ross - URS	2-27-03	1830

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: [Signature]
DATE Signed (MM / DD / YY): 2-27-03 1830

Combine 4 post-Carb Samples into 1 for analysis

April 15, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on April 1, 2003. Please reference Pace project number 03-1188 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0304-0456	Pre-Carb
0304-0457	Primary Effluent
0304-0458	Secondary Effluent
0304-0459	Post-Carb
0304-0460	Trip Blank

General Comments: Cooler temperature 3 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1188
Lab Sample ID: 0304-0456
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	4.7	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.6	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2300	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0304-0456
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	270	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	540	100	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1188
Lab Sample ID: 0304-0457
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	6.1	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2700	50	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	5.1	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

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Lab Sample ID: 0304-0457
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	900	100	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
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Pittsburgh, PA 15205

Lab Project ID: 03-1188
Lab Sample ID: 0304-0458
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/13/2003	0020458-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/13/2003	0020458-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0

(Continued)

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Lab Sample ID: 0304-0458
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	910	20	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/13/2003	0020458-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-1188
Lab Sample ID: 0304-0459
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	7.8	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

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Lab Sample ID: 0304-0459
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	11	2.0	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-1188
Lab Sample ID: 0304-0460
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/30/2003
Date Received: 04/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/12/2003	0020460-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/12/2003	0020460-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

(Continued)

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Lab Sample ID: 0304-0460
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/12/2003	0020460-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/12/2003	0020460-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Required Client Information:

Report To: Keith Dodrill

Copy To:

Invoice To:

P.O.

Project Name: Essex-Hope

Project Number: 801419.2030

Section B

To Be Completed by Pace Analytical and Client

Section C

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

Section D		Required Client Information:		Valid Matrix Codes		Matrix Codes		DATE COLLECTED		TIME COLLECTED		# Containers		Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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May 12, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on May 2, 2003. Please reference Pace project number 03-1661 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0305-0502	Pre-Carb
0305-0503	Primary Effluent
0305-0504	Secondary Effluent
0305-0505	Post-Carb
0305-0509	Trip Blank

General Comments: Cooler temperature 11 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0502
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3400	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0305-0502**
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	560	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	500	100	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0503
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3100	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<500	500	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0503
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<50	50	ug/l	CMS	05/05/2003	0021020-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0504
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<100	100	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0504
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	740	20	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<20	20	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Detection limits have been elevated due to sample matrix.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0505
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.5	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0505
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	77	2.0	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0305-0505 was composited from 4 samples prior to analysis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-1661
Lab Sample ID: 0305-0509
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 04/30/2003
Date Received: 05/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	05/05/2003	0021020-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	05/05/2003	0021020-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0305-0509
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	CMS	05/05/2003	0021020-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	05/05/2003	0021020-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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730996

Section B
Required Client Information:

Report To: **Keith Dodrill**
Copy To:
Invoice To:
P.O.
Project Name: **Essex-Hope**
Project Number: **80/HQ.2030**

Section C
To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #: **031661**
Profile #:
Requested Analysis:

Section D
Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9, /, -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
WATER WT
SOIL SL
OIL OL
WIPE WP
AIR AR
TISSUE TS
OTHER OT

ITEM #	SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	REMARKS / Lab ID
1	PRE-CARB					WA 4-30-03	1530					
2	PRE-MARY EFFLUENT						1530					
3	SECONDARY EFFLUENT						1600					
4	POST-CARB						1600					
5	POST-CARB						1630					
6	POST-CARB						1700					
7	POST-CARB						1730					
8	TRIP BLANK											
9												
10												
11												
12												

SHIPMENT METHOD
Federal Express
837666724667
5-1-03
1

SAMPLE CONDITION
Temp in °C 11
Received on Ice ☒
Sealed Cooler ☒
Samples Intact ☒

SAMPLE NOTES
Combine 4 Post-Carb Samples into 1 for Analysis

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 4-30-03

June 6, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on June 3, 2003. Please reference Pace project number 03-2124 when inquiring about this report.

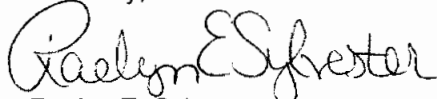
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0306-0453	Pre-Carb
0306-0454	Primary Effluent
0306-0455	Secondary Effluent
0306-0456	Post-Carb
0306-0457	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2124
Lab Sample ID: 0306-0453
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	5.5	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2900	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0453
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	470	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	410	100	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 03-2124
Lab Sample ID: 0306-0454
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021745-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	7.4	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021745-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0454
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Trichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	430	100	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021745-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-2124
Lab Sample ID: 0306-0455
Client Sample ID: Secondary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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Lab Sample ID: 0306-0455
Client Sample ID: Secondary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	20	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-2124
Lab Sample ID: 0306-0456
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5.7	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0456
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	360	2.0	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0306-0456 was composited from 4 samples prior to analysis.

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Lab Project ID: 03-2124
Lab Sample ID: 0306-0457
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/31/2003
Date Received: 06/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	58	10	ug/l	CMS	06/04/2003	0021741-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	CMS	06/04/2003	0021741-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	CMS	06/04/2003	0021741-1	<10
Methylene chloride	8260B ⁽¹⁾	14	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0306-0457
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	CMS	06/04/2003	0021741-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	CMS	06/04/2003	0021741-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Acetone is a common laboratory contaminant. Results for this analyte should be considered estimates unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical®
www.paceanalytical.com

730642

Section A

Required Client Information:

Report To: Keith Dodrill

Section B

Page: 1 of 1

Section C

To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile #:

Client Information (Check quote/contract):
Requested Due Date:
* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days:

Project Name:
Project Number:
Project Address:
Project Phone:
Project Fax:

Company:
Address:
City:
State:
Zip:
Phone:
Fax:

Requested Analysis:
Remarks / Lab ID:

DATE COLLECTED
TIME COLLECTED
Containers

MATRIX CODE
Valid Matrix Codes
WATER, SOIL, OIL, WIPE, AIR, TISSUE, OTHER

SAMPLE ID
One character per box.
(A-Z 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM	SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	REMARKS
1	PRE-CARB											
2	PRE-IMAR											
3	SECONDA											
4	POST-CARB											
5	POST-CARB											
6	POST-CARB											
7	POST-CARB											
8	TRIP-BLANK											
9												
10												
11												
12												

SHIPMENT METHOD: FED-Express
AIRBILL NO.: 837738696998
SHIPPING DATE: 6-2-03
NO. OF COOLERS: 1
SAMPLE NOTES: Combine 4 Post-Carb Samples into (1) one for Analysis.

SAMPLER NAME AND SIGNATURE:
PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: [Signature]
DATE Signed: (MM / DD / YY) 5-31-03

July 15, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 1, 2003. Please reference Pace project number 03-2566 when inquiring about this report.

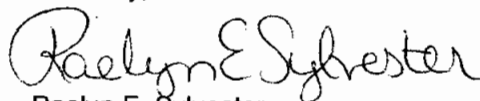
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0307-0465	Pre-Carb
0307-0466	Primary Effluent
0307-0467	Post-Carb
0307-0468	Field Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present. Sample 0307-0467 was composited from 4 samples prior to analysis.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



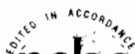
Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0465
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	6.1	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.7	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3300	50	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-0465
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	380	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	560	100	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0466
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	180	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-0466
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	910	100	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0467
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	9.1	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-0467
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	650	10	ug/l	CMS	07/10/2003	0022555-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-2566
Lab Sample ID: 0307-0468
Client Sample ID: Field Blank
Sample Matrix: Aqueous

Date Sampled: 06/29/2003
Date Received: 07/01/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/09/2003	0022516-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/09/2003	0022516-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

(Continued)

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Lab Sample ID: 0307-0468
Client Sample ID: Field Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/09/2003	0022516-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/09/2003	0022516-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Required Client Information:

Report To: **URS Corp.**

Copy To: **URS Corp.**

Invoice To: **URS Corp.**

P.O. **4955 Steubenville Pike**

Project Name: **Twin Towers Suite 250**

Project Number: **Pittsburgh, PA. 15205**

Phone: **412-788-2717**

Fax: **412-788-2717**

Section B

Report To: **Keith Dadrill**

Copy To: **Keith Dadrill**

Invoice To: **Keith Dadrill**

P.O. **Essex-Hope**

Project Name: **Essex-Hope**

Project Number: **88419, 2030**

Section C

Report To: **URS Corp.**

Copy To: **URS Corp.**

Invoice To: **URS Corp.**

P.O. **Essex-Hope**

Project Name: **Essex-Hope**

Project Number: **88419, 2030**

766249

Section C

To Be Completed by Pace Analytical and Client

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

Project #:

Profile #:

Requested Analysis:

Project #:

Profile #:

Requested Analysis:

Project #:

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Section D

Required Client Information:

SAMPLE ID

One character per box.

(A-Z, 0-9, /, -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

WATER

SL

WT

SOIL

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WIPE

WP

AIR

TS

TISSUE

OTHER

CODE

WT

WT

WT

WT

WT

WT

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Preservatives

Unpreserved

H₂SO₄

HNO₃

HCl

NaOH

Na₂O₂

Methanol

Other

Containers

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mm / dd / yy

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TIME

hh:mm a/p

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DATE

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Remarks / Lab ID

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Valid Matrix Codes

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August 7, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 30, 2003. Please reference Pace project number 03-3040 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0307-2288	Pre-Carb
0307-2289	Primary Effluent
0307-2290	Post-Carb
0307-2291	Trip Blank

General Comments: Cooler temperature 6 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3040
Lab Sample ID: 0307-2288
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 07/29/2003
Date Received: 07/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Benzene	8260B ⁽¹⁾	5.4	1.0	ug/l	JEC	08/01/2003	0023200-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2400	50	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-2288
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Trichloroethene	8260B ⁽¹⁾	560	50	ug/l	MAK	07/31/2003	0023153-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	460	100	ug/l	MAK	07/31/2003	0023153-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3040
Lab Sample ID: 0307-2289
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 07/29/2003
Date Received: 07/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	08/01/2003	0023200-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	400	50	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	08/01/2003	0023200-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-2289
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	830	100	ug/l	MAK	07/31/2003	0023153-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	08/01/2003	0023200-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3040
Lab Sample ID: 0307-2290
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 07/29/2003
Date Received: 07/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/31/2003	0023153-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5.6	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-2290

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	490	20	ug/l	CMS	07/31/2003	0023170-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0307-2290 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3040
Lab Sample ID: 0307-2291
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 07/29/2003
Date Received: 07/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/31/2003	0023153-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/31/2003	0023153-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0307-2291
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/31/2003	0023153-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/31/2003	0023153-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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772647

Section B
Required Client Information:

Report To: **Keith Dodrill**
Copy To:
Invoice To:
P.O.
Project Name: **Essex-Hope**
Project Number: **801419, 2030**

Section A
Required Client Information:

Company: **URS Corp**
Address: **4455 Stenberville Ave**
Twin Towers Suite 250
Pittsburgh, PA 15205
Phone: **412-788-2717**
Fax:

Page: of

To Be Completed by Pace Analytical and Client
Section C

Quote Reference:
Project Manager:
Project #: **03-3046**
Profile #:

Requested Analysis:

Preservatives
Containers
DATE COLLECTED
TIME COLLECTED
mm / dd / yy
hh: mm a/p

ITEM	DATE COLLECTED	TIME COLLECTED	# Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other
1	7-29-03	1500	2				X				
2		1500									
3		1500									
4		1530									
5		1600									
6		1630									
7											
8											
9											
10											
11											
12											

ITEM	DATE COLLECTED	TIME COLLECTED	# Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other
1	7-29-03	1500	2				X				
2		1500									
3		1500									
4		1530									
5		1600									
6		1630									
7											
8											
9											
10											
11											
12											

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FED-EX	8397386965	7-29-03	1		John S. Ross	7-29-03	1715	URS	7-29-03	1715
SAMPLE NOTES										
Combine 4 Post-Carb Samples into 1 for Analysis										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: **John S. Ross**
SIGNATURE of SAMPLER: *John S. Ross*
DATE Signed: (MM / DD / YY) **7-29-03**

September 15, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 8, 2003. Please reference Pace project number 03-3672 when inquiring about this report.

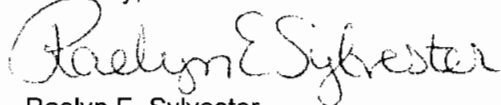
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0309-0818	Pre-Carb
0309-0819	Primary Effluent
0309-0820	Post-Carb
0309-0821	Trip Blank

General Comments: Cooler temperature 9 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-3672
Lab Sample ID: 0309-0818
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 09/04/2003
Date Received: 09/08/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

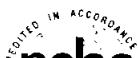
Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Benzene	8260B ⁽¹⁾	5.7	1.0	ug/l	MAK	09/09/2003	0024068-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.3	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	50	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

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Lab Sample ID: 0309-0818
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichloroethene	8260B ⁽¹⁾	580	50	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	380	2.0	ug/l	MAK	09/09/2003	0024068-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-3672
Lab Sample ID: 0309-0819
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 09/04/2003
Date Received: 09/08/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	09/09/2003	0024068-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	950	50	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

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Lab Sample ID: 0309-0819
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	100	ug/l	MAK	09/09/2003	0024068-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Pittsburgh, PA 15205

Lab Project ID: 03-3672
Lab Sample ID: 0309-0820
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 09/04/2003
Date Received: 09/08/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	09/09/2003	0024068-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.3	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

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Lab Sample ID: 0309-0820
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	750	20	ug/l	MAK	09/10/2003	0024095-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0309-0820 was composited from 4 samples prior to analysis.

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Lab Project ID: 03-3672
Lab Sample ID: 0309-0821
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 09/04/2003
Date Received: 09/08/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	09/09/2003	0024068-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	09/09/2003	0024068-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

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Lab Sample ID: 0309-0821
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	09/09/2003	0024068-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/09/2003	0024068-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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October 8, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 2, 2003. Please reference Pace project number 03-4091 when inquiring about this report.

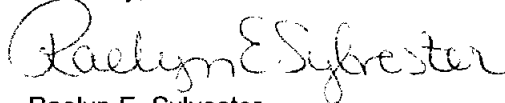
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0310-0587	Pre-Carb
0310-0588	Primary Effluent
0310-0589	Post-Carb
0310-0590	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4091
Lab Sample ID: 0310-0587
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 09/30/2003
Date Received: 10/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Benzene	8260B ⁽¹⁾	6.8	1.0	ug/l	MAK	10/03/2003	0024672-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3300	50	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0310-0587
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichloroethene	8260B ⁽¹⁾	580	50	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	560	100	ug/l	MAK	10/03/2003	0024672-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4091
Lab Sample ID: 0310-0588
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 09/30/2003
Date Received: 10/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/03/2003	0024672-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1500	50	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0310-0588
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	560	100	ug/l	MAK	10/03/2003	0024672-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4091
Lab Sample ID: 0310-0589
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 09/30/2003
Date Received: 10/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/03/2003	0024672-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.7	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0310-0589
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	770	20	ug/l	MAK	10/03/2003	0024672-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0310-0589 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: **03-4091**
Lab Sample ID: **0310-0590**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 09/30/2003
Date Received: 10/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	10/03/2003	0024672-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	10/03/2003	0024672-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0310-0590
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/03/2003	0024672-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/03/2003	0024672-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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CHAIN OF CUSTODY / ANALYTICAL REQUEST DOCUMENT

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:		Section A	
Company	URS Corp.	Section B	
Address	4955 Steubenville Pike	Report To:	Keith Dohrill
City/State/Zip	Twin Towers Suite 250	Copy To:	
Phone	Pittsburgh, PA 15205	Invoice To:	
Fax	412.785.2717	P.O.	
Project Name:	Essex-Hope	Project Number:	801419.2030

Required Client Information:		Section C	
Project #:	43-4691	Project Manager:	
Profile #:		Requested Analysis:	
Turn Around Time (TAT) in calendar days:		Turn Around Time (TAT) in calendar days:	

Page: of

730227

Section D		Required Client Information:										Preservatives										Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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		MATRIX	WATER	SL	OL	WP	AR	TS	OT	CODE	WT					Na ₂ S ₂ O ₃	NaOH	HCl	HNO ₃	H ₂ SO ₄	Unpreserved	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SHIPMENT METHOD		AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed Express		837738696645	10-1-03	1		John Ross	10-1-03	1630	Fed Express	10-1-03	1630
SAMPLE CONDITION		SAMPLE NOTES									
Temp in °C	2	Combine (4) post carb samples into (1) for Analysis									
Received on Ice	Y/N										
Sealed Cooler	Y/N										
Samples Intact	Y/N										
Additional Comments:		DATE Signed: 9-30-03									

November 18, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 4, 2003. Please reference Pace project number 03-4655 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0311-0498	Pre-Carb
0311-0499	Primary Effluent
0311-0500	Post-Carb
0311-0501	Trip Blank

General Comments: Cooler temperature 7 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4655
Lab Sample ID: 0311-0498
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 10/31/2003
Date Received: 11/04/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Benzene	8260B ⁽¹⁾	5.0	1.0	ug/l	MAK	11/10/2003	0025682-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	9.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-0498
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Toluene	8260B ⁽¹⁾	120	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichloroethene	8260B ⁽¹⁾	370	50	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	490	100	ug/l	MAK	11/10/2003	0025682-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
o-Xylene	8260B ⁽¹⁾	5.2	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4655
Lab Sample ID: 0311-0499
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 10/31/2003
Date Received: 11/04/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	340	10	ug/l	MAK	11/10/2003	0025682-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/10/2003	0025682-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloromethane	8260B ⁽¹⁾	5.7	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	8.4	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-0499
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	850	100	ug/l	MAK	11/10/2003	0025682-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4655
Lab Sample ID: 0311-0500
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 10/31/2003
Date Received: 11/04/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/10/2003	0025682-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	64	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-0500
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	7.5	2.0	ug/l	MAK	11/10/2003	0025682-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0311-0500 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-4655
Lab Sample ID: 0311-0501
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 10/31/2003
Date Received: 11/04/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/10/2003	0025682-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/10/2003	0025682-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0311-0501

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/10/2003	0025682-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/10/2003	0025682-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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CHAIN OF CUSTODY / ANALYTICAL REQUEST DOCUMENT

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

768363

Section A

Required Client Information:
Company: YRS Corp
Address: 4955 Stenberville Ave
Twin Towers Suite 250
Pittsburgh PA 15205
Phone: 412-788-2717 Fax:

Section B

Report To: Keith Dodrill
Copy To:
Invoice To:
P.O.
Project Name: Essex-Hope
Project Number: 80419.2030

Section C

Page: of
Client Information (Check quote/contract):
Requested Due Date: *TAT:
* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section D

To Be Completed by Pace Analytical and Client
Quote Reference:
Project Manager:
Project #: 03-4655
Profile #:
Requested Analysis:

Section D
Required Client Information:
SAMPLE ID
One character per box.
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes
MATRIX CODE
WATER WT SL OL WP AR TS OT
SOIL OIL WIPE AIR TISSUE OTHER

Preservatives
Unpreserved H₂SO₄ HNO₃ HCl NaOH Na₂S₂O₃ Methanol Other

ITEM	#	PRE	POST	TRIP	BLANK	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# CONTAINERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	REMARKS / LAB ID
1		P	R	E		WT	10-31-03	1630	2	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0498
2		P	R	I	M	WT	10-31-03	1630	1	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0499
3		P	O	S	T	WT	10-31-03	1630	1	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0500
4		P	O	S	T	WT	10-31-03	1700	1	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0501
5		P	O	S	T	WT	10-31-03	1730	1	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0502
6		P	O	S	T	WT	10-31-03	1800	1	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0503
7		T	R	I	P	WT	10-31-03	1800	3	John Dodrill - YRS	11-3-03	1700	Fed Express	11-3-03	1700	11-0504
8																
9																
10																
11																
12																

SHIPMENT METHOD: Fed-Ex
AIRBILL NO.:
SHIPPING DATE: 11-3-03
NO. OF COOLERS: 1
SAMPLE NOTES: Combine 4 post-carb Samples into 1 for Analysis
SAMPLE CONDITION: 7
Temp in °C: 7
Received on Ice: Y/N
Sealed Cooler: Y/N
Samples Intact: Y/N
Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John Ross
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 10-31-03
DATE: 11-3-03
TIME: 1700
ACCEPTED BY / AFFILIATION: Fed Express
DATE: 11-3-03
TIME: 1700

December 12, 2003

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 2, 2003. Please reference Pace project number 03-5153 when inquiring about this report.

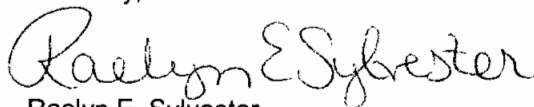
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0312-0485	Pre-Carb
0312-0486	Primary Effluent
0312-0487	Post-Carb
0312-0488	Trip Blank

General Comments: Cooler temperature 3 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5153
Lab Sample ID: 0312-0485
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 11/29/2003
Date Received: 12/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Benzene	8260B ⁽¹⁾	6.1	1.0	ug/l	MAK	12/10/2003	0026521-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	18	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3000	50	ug/l	MAK	12/08/2003	0026451-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-0485
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Trichloroethene	8260B ⁽¹⁾	580	50	ug/l	MAK	12/08/2003	0026451-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	680	100	ug/l	MAK	12/08/2003	0026451-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5153
Lab Sample ID: 0312-0486
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 11/29/2003
Date Received: 12/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/10/2003	0026521-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.9	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/10/2003	0026521-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-0486
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	930	100	ug/l	MAK	12/08/2003	0026451-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/10/2003	0026521-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5153
Lab Sample ID: 0312-0487
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 11/29/2003
Date Received: 12/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/08/2003	0026451-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	35	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-0487
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	7.5	2.0	ug/l	MAK	12/08/2003	0026451-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0312-0487 was composited from 4 samples prior to analysis

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 03-5153
Lab Sample ID: 0312-0488
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 11/29/2003
Date Received: 12/02/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/08/2003	0026451-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/08/2003	0026451-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-0488
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/08/2003	0026451-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/08/2003	0026451-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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730008

Section C

Section B

Required Client Information:

Section A

Required Client Information:

Report To: Keith Dodrill		Copy To:		Invoice To:		P.O.:		Project Name: Essex-Hope		Project Number: 801419.2030		Requested Analysis:	
Matrix Code		Valid Matrix Codes		DATE COLLECTED		TIME COLLECTED		# Containers		Preservatives		Remarks / Lab ID	
WATER SOIL OIL WIPE AIR TISSUE OTHER		WT SL OL WP AR TS OT		mm / dd / yy		hh:mm a/p				Unreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ SO ₃ Methanol Other			
1	PRE-CARB			11-24-03	1800	2							12-04-03
2	PRIMARY EFFLUENT			11-24-03	1800								12-04-03
3	POST-CARB			11-24-03	1830								12-04-03
4	POST-CARB			11-24-03	1900								12-04-03
5	POST-CARB			11-24-03	1930								12-04-03
6	POST-CARB												
7	TRIP BLANK												

SHIPMENT METHOD		AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed-Ex		8411673043810	12-1-03	1		John S. Ross	12-03	1730	Fed-Ex		
SAMPLE NOTES											
Temp in °C 3											
Received on Ice Y/N											
Sealed Cooler Y/N											
Imples Intact Y/N											
Additional Comments:											
SAMPLER NAME AND SIGNATURE											
PRINT Name of SAMPLER: John Ross											
SIGNATURE of SAMPLER: <i>[Signature]</i>											
DATE Signed: (MM / DD / YY) 11-24-03											

January 14, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 30, 2003. Please reference Pace project number 03-5550 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0312-2379	Pre-Carb
0312-2380	Primary Effluent
0312-2381	Post-Carb
0312-2382	Trip Blank

General Comments: Cooler temperature 4 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 03-5550
Lab Sample ID: 0312-2379
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 12/28/2003
Date Received: 12/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Benzene	8260B ⁽¹⁾	5.7	1.0	ug/l	MAK	01/06/2004	0027051-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromotorm	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3500	50	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-2379
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichloroethene	8260B ⁽¹⁾	630	50	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	650	100	ug/l	MAK	01/06/2004	0027051-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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Lab Project ID: 03-5550
Lab Sample ID: 0312-2380
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 12/28/2003
Date Received: 12/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/06/2004	0027051-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	15	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

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Lab Sample ID: 0312-2380
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1200	100	ug/l	MAK	01/06/2004	0027051-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project ID: 03-5550
Lab Sample ID: 0312-2381
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 12/28/2003
Date Received: 12/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/06/2004	0027051-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	33	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0312-2381
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	7.0	2.0	ug/l	MAK	01/06/2004	0027051-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis. Sample 0312-2381 was composited from 4 samples prior to analysis as requested.

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Lab Project ID: 03-5550
Lab Sample ID: 0312-2382
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 12/28/2003
Date Received: 12/30/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/06/2004	0027051-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/06/2004	0027051-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

(Continued)

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Lab Sample ID: 0312-2382
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/06/2004	0027051-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/06/2004	0027051-1	<5.0

⁽¹⁾ U.S. Environmental Protection Agency, 1996, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

Sample Comments: Results reported on an as received basis.

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