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November 4, 2004

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Mr. Maurice Moore
Division of Hazardous Waste Remediation
NYSDEC
270 Michigan Ave.
Buffalo, NY 14203-2999

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**Re: June 2004 Semi-Annual Performance Monitoring Report
Essex/Hope Site, Jamestown, New York
URS Project No. 41567320**

Dear Mr. Moore:

This letter report is a summary of the January through July 2004 operation performance for the remedial system at the above-referenced site. This report is submitted in accordance with the revised Performance Monitoring Plan (PMP) prepared by URS Corporation (URS) dated October 2003. During the period approximately 637,450 gallons of water were treated and discharged to the City of Jamestown POTW. The following sections discuss the data on groundwater quality sampling and groundwater flow. Soil sampling was not conducted during this reporting period.

GROUNDWATER FLOW EVALUATION

Water level measurements were taken on February 20, 2004 and May 14, 2004. Water level data is provided in Appendix A of this report. Groundwater contour maps illustrating pumping conditions during the reporting period are provided as Figures 1 and 2. The following discussions review the flow conditions of the Shallow (water table) and Lower Fine Sand (deep) water-bearing zones.

Shallow Water-Bearing Zone (SWBZ)

A water table contour map representing pumping conditions in the Shallow Water-Bearing Zone on May 14, 2004 is provided as Figure 1. The drawdown conditions are consistent with those documented during the same period in 2003. Shallow groundwater was extracted at an average rate of 1 gallon per minute (gpm) from the NPL Area, 0.07 gpm from the AST/UST Area.

Recovery wells RW-4S and RW-5S were rendered inoperable after November 2, 2002 because of demolition of the electrical and groundwater discharge lines during the UST Area tank removal.

The UST Area is currently being investigated for the extent of residual VOCs in soil and groundwater. Potential further remedial actions in the UST Area will be assessed after review of the investigation results.

URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220
Phone: 412.503.4700
Fax: 412.503.4704

Lower Fine Sand Water-Bearing Zone

Deep zone groundwater extraction is conducted from Recovery Well RW-2D in the NPL Area. No groundwater is pumped from RW-1D, which was shut down in June of 1999 with the approval of the NYSDEC. Potentiometric surface contour maps representing pumping conditions on May 14, 2003 are provided as Figure 2. The aerial influence of pumping from RW-2D decreased over the reporting period due to increasing accumulation of precipitates around and within the well. Groundwater was extracted from the deep zone at an average rate of 2 gpm during the first quarter of 2004, with a gradual decrease down to approximately 1.5 gpm by the end of the second quarter. Cleaning and re-development was completed in July 2004 to restore the groundwater yield from the well.

WATER QUALITY RESULTS

Performance monitoring included semi-annual sampling of the recovery wells during the 2nd Quarter of 2004 and monthly influent and effluent sampling of the treatment system. The first of the semi-annual sampling events for the recovery wells was on May 27, 2004. The monthly influent/effluent samples were collected on January 31, 2004, February 27, 2004, March 30, 2004, April 30, 2004, May 27, 2004 and June 25, 2004. Pace Analytical of Export, Pennsylvania analyzed the samples for volatile organic compounds (VOC's) by US EPA Method 8260B. The recovery well analytical results are summarized in Table 1; and historical results for each recovery well is summarized in Tables 2 through 6. Tables 7 through 9 summarize the monthly influent and effluent sample results. Copies of the laboratory data packages are provided in Appendix B. The following sections discuss the analytical data from each remedial area.

NPL Area – Shallow Zone

VOC's detected in RW-1S (Table 2) during the May sampling round included: TCE (4,800 ug/L), vinyl chloride (38 ug/L), 1,1 DCE (11 ug /L) and cis-1,2-DCE (170 ug/L) - all other VOC's were non-detect. TCE increased from 280 ug/L in the 4th quarter of 2003, but previous data indicates that concentrations have been variable at this location over time. Vinyl chloride decreased from 1,900 ug/L detected during the last round in the 4th quarter of 2003, and similarly to TCE – results have been variable over time. 1,1-DCE and cis-1,2-DCE have remained at levels comparable to previous data.

VOC's detected at RW-2S (Table 3) included TCE (450 ug/L), cis-1,2-DCE (88 ug/L) and 1,1-DCE (4.7 ug/L) – all other VOCs were below detection limits. The detected compounds also demonstrated fluctuations in concentrations relative to previous and historic data, especially for TCE.

NPL Area – Lower Fine Sand Water Bearing Zone

VOC's detected at RW-1D (Table 5) during the 2nd Quarter included cis-1,2-DCE (370 ug/L), vinyl chloride (14 ug/L), acetone (11 ug/L), TCE (8.5 ug/L), 1,1-DCE (8.3 ug/L), trans-1,2-DCE (8.1 ug/L), and benzene (1.5 ug/L) - all other VOC's were non-detect. Cis-1,2-DCE has decreased over the last two sampling rounds from an average range of 1,300 to 3,000 ug/L during prior sampling rounds. TCE and trans-1,2-DCE show a slight decrease compared to

previous data. Acetone, benzene and vinyl chloride, occasionally detected at this location, show similar concentrations compared to previous data.

Compounds detected at RW-2D (Table 6) included: cis-1,2-DCE (6,400 ug/L), vinyl chloride (1,600 ug/L), TCE (760 ug/L), 1,1-DCE (34 ug/L), trans-1,2-DCE (32 ug/L), and benzene (11 ug/L). Cis-1,2-DCE increased as compared to the last three sampling rounds between the 2nd and 4th quarter of 2003 where levels ranged from 3,900 to 5,000 ug/l. Vinyl chloride has shown an increasing trend over this same time period. TCE and 1,1-DCE are slightly higher than previous rounds, and trans-1,2-DCE and benzene remain at similar levels compared to previous levels.

AST/UST Area

VOC's detected at RW-3S (Table 4) included: xylenes (75 ug/L), ethylbenzene (43 ug/L), isopropylbenzene (7.4 ug/L), vinyl chloride (4.8 ug/L) and benzene (1.8 ug/L) – all other VOCs were non-detect. Xylenes concentrations slightly decreased from the 4th Quarter 2004 level of 97 ug/L. Concentrations have been typically irregular for this compound over time. Ethylbenzene and isopropylbenzene remained at comparable concentrations over the last year. Benzene has shown a decrease to less than or just above the detection limit of 1 ug/L over the last two sampling rounds. Low concentrations of vinyl chloride have been detected sporadically at this location.

Treatment Plant Influent/Effluent

The treatment plant influent and effluent concentrations for the first half of 2004 are shown on Tables 7-9. Pre-Carbon data (Table 7) reflects the influent composite from all the groundwater extraction wells prior to onsite treatment. Primary Carbon Effluent data (Table 8) represents the effluent from the first carbon treatment vessel prior to the second treatment vessel. Secondary Carbon Effluent data (Table 9) represents the pre-treated effluent water prior to discharge to the City of Jamestown Publicly Owned Treatment Works (POTW). System influent and effluent concentrations are summarized below.

VOC's detected in the influent during the reporting period included: cis-1,2-DCE (<5 to 4,100 ug/L), vinyl chloride (440 to 1,000 ug/L), TCE (390 to 770 ug/L), xylenes (<5 to 78.1 ug/L), acetone (<10 to 31 ug/L), 1,1-DCE (<5 to 25 ug/L), trans-1,2-DCE (10 to 19 ug/L), benzene (5.3 to 8.7 ug/L) and ethylbenzene (<5 to 6.3 ug/L). Influent data for each month of the reporting period is provided on Table 7.

VOC's detected in the secondary carbon effluent (discharge to the POTW) during the reporting period included: vinyl chloride (<2 to 1,700 ug/L), cis-1,2-DCE (27 to 1,200 ug/L) and TCE (<5 to 23 ug/L). Discharge concentrations remained below the POTW discharge limit of 2,130 ug/L total VOCs established for the site. Effluent data for each month is provided on Table 9.

Based upon increasing concentration trends in the primary carbon vessel and system effluent, the primary carbon vessel was taken offline on June 18, 2004 and the secondary carbon unit moved to the primary position. A fresh carbon vessel was placed online in the secondary position. The two spent carbon units were recharged with re-activated carbon by Envirotrol Inc. the week of July 19, 2004; the spent carbon was shipped to Envirotrol's Darlington, PA

facility for re-activation. At this time, the fresh unit placed in the secondary position on June 18, 2004 was moved to the primary position, and a newly recharged carbon unit was placed in the secondary position.

CLOSING

This letter report has been prepared to satisfy the reporting requirements stipulated in the Performance Monitoring Plan and to evaluate remediation effectiveness on a semi-annual basis. If you have any questions or desire additional information, please do not hesitate to call me at (412) 503-4672.

Sincerely,

URS



Mark J. Dowiak
Project Manager

MD/KD
Enclosure

cc: Tim King – The Dow Chemical Company
Keith Dodrill – URS
John Ross – URS
Cameron O'Conner – NY State Dept. of Health
G. Gerald Rider – NYDEC Div. of Environmental Remediation
Carlo J. Montisano – Custom Production Manufacturing, Inc.

Table 1
2nd Quarter Sampling
Recovery Well Analytical Results
May 27, 2003 *DATE*

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	11	<10	<10	<10	<10
Benzene	-	<1.0	1.5	<1.0	11	1.8	<1.0
2-Butanone	-	<10	<10	<10	<10	<10	<10
Chloroform	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene (Cumene)	-	<5.0	<5.0	<5.0	<5.0	7.4	<5.0
1,1-Dichloroethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	-	11	8.3	<5.0	34	<5.0	<5.0
cis-1,2-Dichloroethene	-	740	370	88	6,400	<5.0	<5.0
trans-1,2-Dichloroethene	5	<5.0	8.1	<5.0	32	<5.0	<5.0
Ethylbenzene	5	<5.0	<5.0	<5.0	<5.0	43	<5.0
4-Methyl-2-pentanone	-	<10	<10	<10	<10	<10	<10
Methylene Chloride	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	4,800	8.5	450	760	<5.0	<5.0
Vinyl Chloride	5	38	14	4.7	1,600	4.8	<2.0
Total Xylenes	5	<5.0	<5.0	<5.0	<5.0	75	<5.0

Notes:

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

Table 3
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)	May-04 (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	<10	<10
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	<10
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	<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	<5.0
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	<5.0
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	<5.0
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	88
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	<5.0
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	<5.0
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	<5.0
Tetrachloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<5	<1	<2	2.01	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5.0
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	<5.0
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	NA
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	450
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	4.7
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	6.6	<5	<5	<5	<5	<5	<5	<5.0

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/<1	< 0.10	NA	< 0.3	< 0.3	<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	<0.10	<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.

** 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 4
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-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)	May-04 (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	<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	1.8
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	<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	<5.0
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	7.4
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	<5.0
cis-1,2-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5.0
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	<5.0
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	43
Methylene Chloride	-	< 1000	< 500	< 5	360	<10	<50	< 5	<1	12 ^B	<1	2 ^B	<5	57 ^B	<1	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5.0
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	<5.0
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	<5.0
Vinyl Chloride	5	< 1000	< 500	11	<250	<10	<50	< 5	11	<2	<1	<2	<5	<2	2	<2	<2	<2	<2	<5	17	<2	<2	<2	<2	<2	<2	<2	4.8
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	75

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)
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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.
E = Concentration exceeded calibration range of instrument.
J = Estimated Concentration
NA = Not Analyzed

Table 5
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)	May-04 (ug/L)	
Acetone	-	< 19 ^a	< 10	< 10	37	<5	<10	< 10	<5	<5	<10	<10	14 ^B	<25	4 J ^B	<5	<5	<5	<5	12	<5	<10	<10	<10	<10	<10	<10	<10	<10	11
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	<1	1.5
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	<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	<5	<5.0
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	<5	NA
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	<5	<5.0
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	8.3	
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	370	
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	8.1	
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	<5	<5.0
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	<5	<5.0
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	<5	<5.0
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	8.5	
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	14	
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	<5	<5.0

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)
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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
Aroclor-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 6
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)	May-04 (ug/L)
Acetone	-	<10	< 90 ^B	< 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	<10
Benzene	-	NA	< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	<5	<10	3	4.7	6.5	7.2	7.6	9.2	9.9	9.1	9.5	9.7	9.7	11	9.2	8.3	11
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	<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	<5.0
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	<5.0
1,1-Dichloroethene	-	NA	<5	<50	<5	<250	<25	>120	<5	5	6	<1	65	6	<10	12	26	17	16	26	26	33	<5	32	22	26	23	22	19	34
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	60	7,900	4,300	6,000	5,000	4,600	3,900	6,400
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	32
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	<5.0
Methylene Chloride	-	<10	< 12 ^B	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	<5.0
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	<5.0
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	<5.0
Trichloroethene	5	5,600	2,200 D	1,900 D	4,500 D	4,900	2,200/2,600	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	160	<5	210	110	490	840	600	400	760
Vinyl Chloride	5	32	32	< 50	71	<250	83/<25	110 J	160	190	280	190 D	<20	210	160	160 D	120 D	530	610	1,300	1,100	1,700	66	1,300	1,600	1,100	960	1,000	1,300	1600
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	<5.0

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 5.5 hr and 29 hr samples.

J = Estimated Concentration

NA = Not analyzed

Table 7

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

Compound	Jan-31-04 (ug/L)	Feb-27-04 (ug/L)	Mar-30-04 (ug/L)	Apr-30-04 (ug/L)	May-27-04 (ug/L)	June-25-04 (ug/L)	Jul-04 (ug/L)	Aug-04 (ug/L)	Sept-04 (ug/L)	Oct-04 (ug/L)	Nov-04 (ug/L)	Dec-04 (ug/L)
Acetone	31	<10	<10	<10	<10	<10						
Benzene	6.4	8.7	5.3	5.6	4.7	5.7						
2-Butanone	<10	<10	<10	<10	<10	<10						
Chloroform	<5	<5	<5	<5	<5	<5						
Chloromethane	<5	<5	<5	<5	<5	<5						
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5						
1,1-Dichloroethene	15	25	10	12	14	<5						
cis-1,2-Dichloroethene	<5	4100	2500	3,000	2600	3,200						
trans-1,2-Dichloroethene	14	19	10	16	13	17						
Ethylbenzene	<5	5.3	6.3	<5	<5	<5.0						
Methylene Chloride	<5	<5	<5	<5	<5	<5.0						
Toluene	<5	<5	<5	<5	<5	<5						
Trichloroethene	390	770	420	620	680	690						
Vinyl Chloride	620	1000	440	530	530	590						
Total Xylenes	<5	38	78.1	6	<5	<5						
Pre-Carb TOTAL VOCs	1,076.4	5,966.0	3,469.7	4,189.6	3,841.7	4,502.7	00	00	00	00	00	00

Notes:

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

Primary Carbon Unit taken offline on June 18, 2004.

Secondary Carbon Unit moved to Primary position, and fresh unit placed in Secondary position on June 18, 2004.

Primary Carbon and spent carbon unit recharged with re-activated carbon on July 19, 2004.

Secondary Carbon was moved to the Primary position and a recharged carbon unit was placed in the Secondary Position on July 19, 2004.

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 8

**Primary Carbon Effluent
POTW Monthly Monitoring Summary**

Compound	Jan-31-04 (ug/L)	Feb-27-04 (ug/L)	Mar-30-04 (ug/L)	Apr-30-04 (ug/L)	May-27-04 (ug/L)	June-25-04 (ug/L)	Jul-04 (ug/L)	Aug-04 (ug/L)	Sept-04 (ug/L)	Oct-04 (ug/L)	Nov-04 (ug/L)	Dec-04 (ug/L)
Acetone	<10	<10	<10	<10	<10	<10						
Benzene	<1	<1	<1	<1	<1	<1						
2-Butanone	<10	<10	<10	<10	<10	<10						
Chloroform	<5	<5	<5	<5	<5	<5						
Chloromethane	<5	<5	<5	<5	<5	<5						
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5						
1,1-Dichloroethene	<5	<5	<5	<5	5.2	<5						
cis-1,2-Dichloroethene	130	460	690	1200	2100	37						
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5						
Ethylbenzene	<5	<5	<5	<5	<5	<5						
Methylene Chloride	<5	<5	<5	<10	<5	<5						
Toluene	<5	<5	<5	<5	<5	<5						
Trichloroethene	<5	23	<5	9.9	14	<5						
Vinyl Chloride	1300	1600	920	860	870	1300						
Total Xylenes	<5	<5	<5	<5	<5	<5						
Primary-Carb TOTAL VOCs	1,430.0	2,083.0	1,610.0	2,069.9	2,989.2	1,337.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

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

Primary Carbon Unit taken offline on June 18, 2004

Secondary Carbon Unit moved to Primary position, and fresh unit placed in Secondary position on June 18, 2004.

Primary Carbon and spent carbon unit recharged with re-activated carbon on July 19, 2004.

Secondary Carbon was moved to the Primary position and a recharged carbon unit was placed in the Secondary Position on July 19, 2004.

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 9

**Secondary Carbon Effluent
POTW Monthly Monitoring Summary**

Compound	Jan-31-04 Post Carb (ug/L)	Feb-27-04 Post Carb (ug/L)	Mar-30-04 Post Carb (ug/L)	Apr-30-04 Post Carb (ug/L)	May-27-04 Post Carb (ug/L)	June-25-04 Post Carb (ug/L)	Jul-04 Post Carb (ug/L)	Aug-04 Post Carb (ug/L)	Sept-04 Post Carb (ug/L)	Oct-04 Post Carb (ug/L)	Nov-04 Post Carb (ug/L)	Dec-04 Post Carb (ug/L)
Acetone	<10	<10	<10	<10	<10	<10						
Benzene	<1	<1	<1	<1	<1	<1						
2-Butanone	<10	<10	<10	<10	<10	<10						
Chloroform	<5	<5	<5	<5	<5	<5						
Chloromethane	<5	<5	<5	<5	<5	<5						
Isopropylbenzene (Cumene)	<5	<5	<5	<5	<5	<5						
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5						
cis-1,2-Dichloroethene	130	460	690	1200	27	280						
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5						
Ethylbenzene	<5	<5	<5	<5	<5	<5						
Methylene Chloride	<5	<5	<5	<10	<5	<5						
Toluene	<5	<5	<5	<5	<5	<5						
Trichloroethene	<5	23	<5	9.9	<5	<5						
Vinyl Chloride	1300	1600	920	860	1700	<2						
Total Xylenes	<5	<5	<5	<5	<5	<5						
Secondary TOTAL VOCs	1,430.0	2,083.0	1,610.0	2,069.9	1,727.0	280.0	00	00	00	00	00	00

Notes:

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

Primary Carbon Unit taken offline on June 18, 2004.

Secondary Carbon Unit moved to Primary position, and fresh unit placed in Secondary position on June 18, 2004.

Primary Carbon and spent carbon unit recharged with re-activated carbon on July 19, 2004.

Secondary Carbon was moved to the Primary position and a recharged carbon unit was placed in the Secondary Position on July 19, 2004.

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.

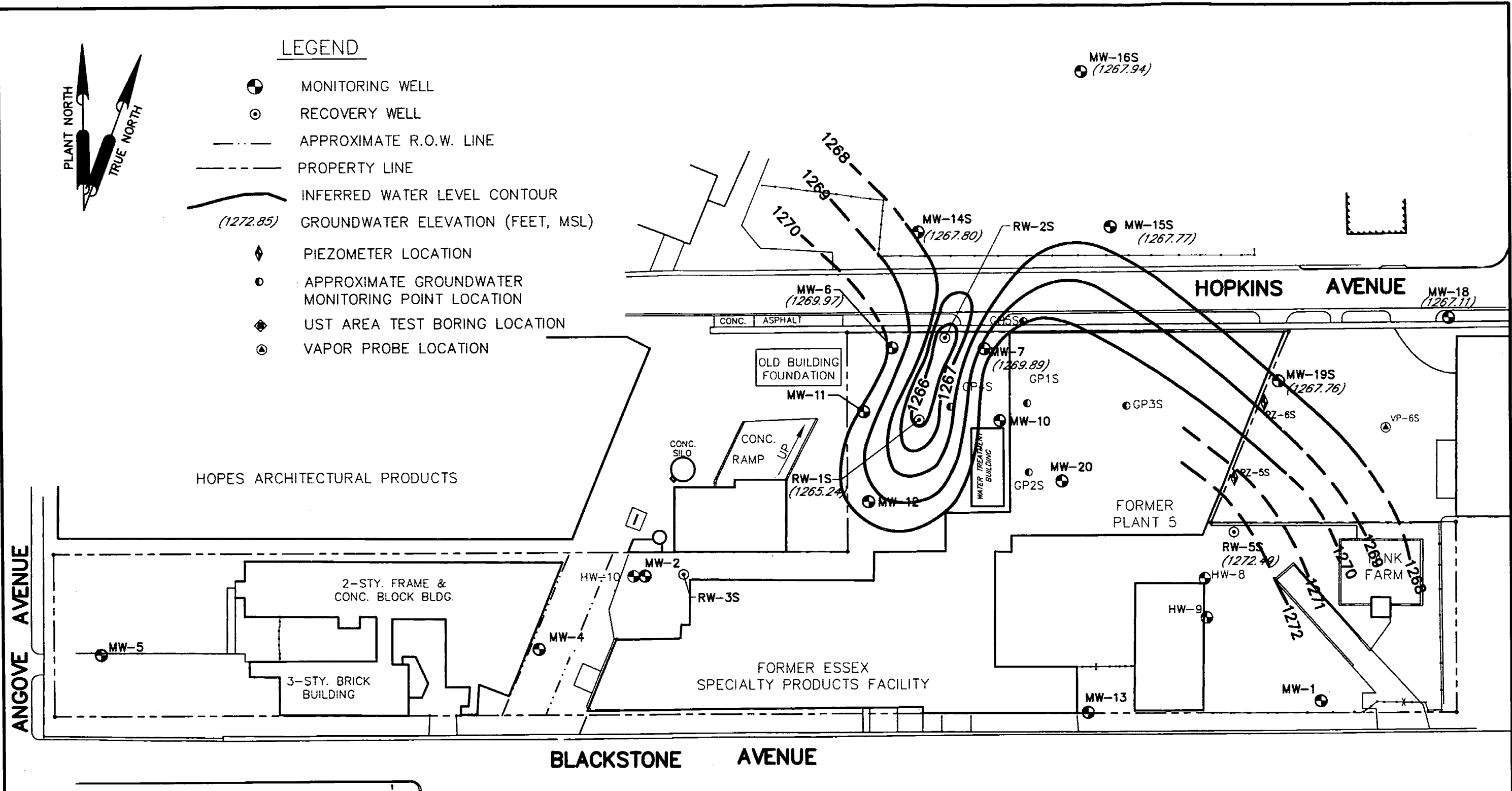
Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

NS = Not Sampled

NA= Not Analyzed

FIGURES

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PITTSBURGH, PENNSYLVANIA

2004 SEMI-ANNUAL MONITORING REPORT
WATER TABLE CONTOUR MAP - MAY 14, 2004

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JOB NUMBER: 41567320.06

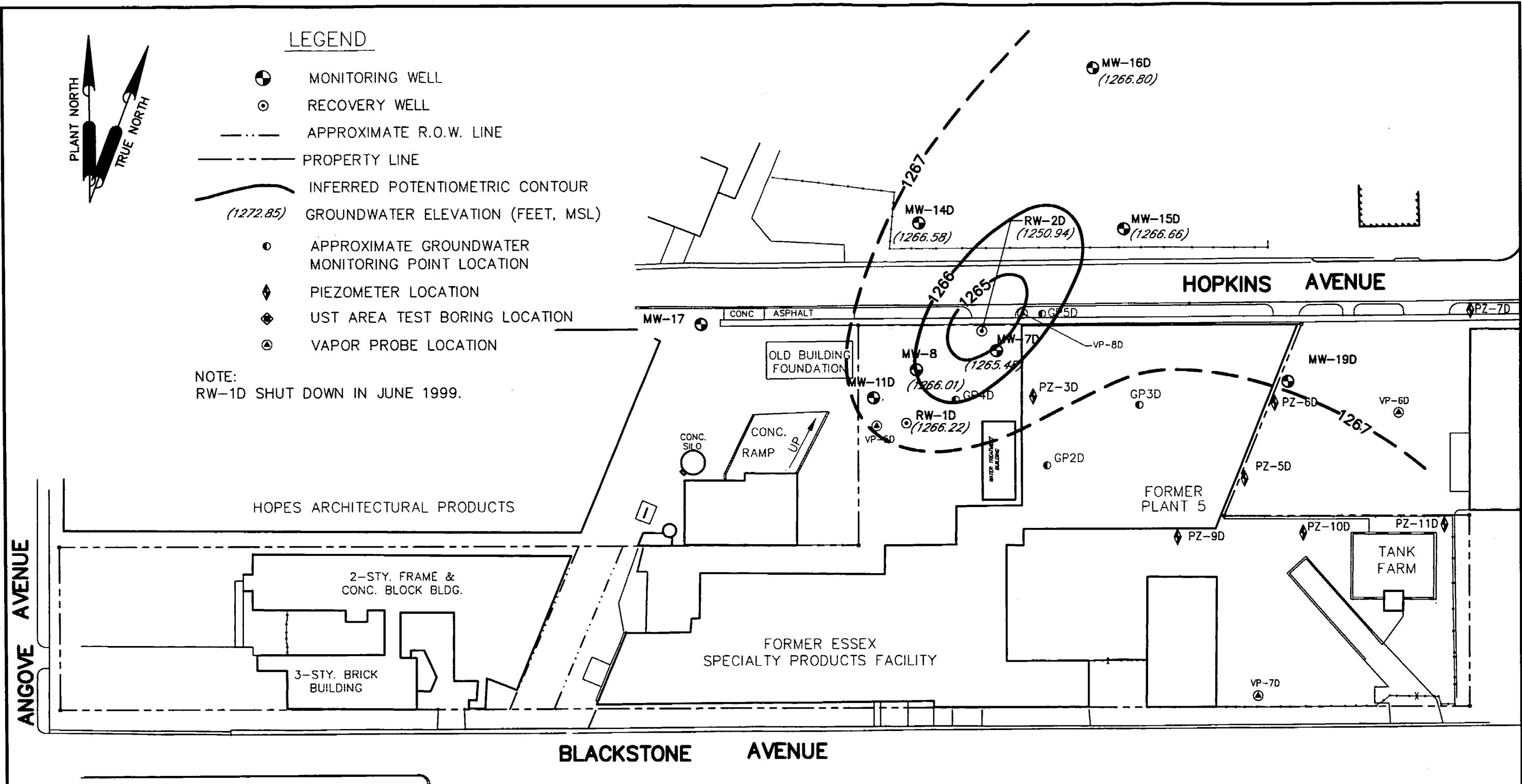
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FIGURE
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2004 SEMI-ANNUAL MONITORING REPORT
LOWER FINE SAND WATER BEARING ZONE - MAY 14, 2004

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JOB NUMBER: 41567320.06

SCALE: AS SHOWN

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APPENDIX A

Water Level Measurement Data

**Groundwater Extraction System Monitoring Data
2004 Water Levels**

**Essex/Hope Site Remedial Action
Jamestown, New York
URS Project No. 41567320**

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	February 20, 2004		May 14, 2004	
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)
MW-1	9758.7151	10383.6499	1280.48	Shallow WBZ	NA	NA	NM	NA
MW-2	9837.1531	9959.6857	1279.87	Shallow WBZ	No Access	NA	Dry	NA
MW-4	9792.3277	9900.7831	1281.02	Shallow WBZ	No Access	NA	NM	NA
MW-5	9789.6222	9631.761	1280.82	Shallow WBZ	No Access	NA	NM	NA
MW-6*	9977.1197	10118.8762	1277.98	Shallow WBZ	8.27	1269.71	8.01	1269.97
MW-7*	9978.6467	10175.6797	1277.73	Shallow WBZ	8.90	1268.83	7.84	1269.89
MW-7D*	9973.2593	10174.8524	1277.8	Lower Fine Sand WBZ	14.35	1263.45	12.32	1265.48
MW-7DD*	9970.8547	10176.2898	1277.74	Glacial Till	1.88	1275.86	NM	NA
MW-8	9959.6089	10127.6898	1277.97	Lower Fine Sand WBZ	13.99	1263.98	11.96	1266.01
MW-10	9932.4702	10185.7078	1277.94	Shallow WBZ	No Access	NA	NM	NA
MW-11*	9937.9812	10101.7016	1277.75	Shallow WBZ	10.42	1267.33	NM	NA
MW-11D	9942.3792	10101.1482	1277.85	Lower Fine Sand WBZ	13.30	1264.55	NM	NA
MW-12	9883.0874	10104.9278	1278.18	Shallow WBZ	No Access	NA	NM	NA
MW-13	9752.0619	10240.2934	1278.12	Shallow WBZ	No Access	NA	NM	NA
MW-14S	10048.7753	10135.5198	1280.25	Shallow WBZ	13.60	1266.45	12.45	1267.80
MW-14D	10049.5051	10129.1897	1280.01	Lower Fine Sand WBZ	15.12	1264.89	13.43	1265.58
MW-15S	10051.8272	10254.4862	1279.55	Shallow WBZ	13.68	1265.89	11.78	1267.77
MW-15D	10045.5611	10255.205	1279.46	Lower Fine Sand WBZ	14.50	1264.96	12.8	1266.66
MW-16S	10148.7788	10236.8582	1279.32	Shallow WBZ	12.97	1266.35	11.38	1267.94
MW-16D	10143.9497	10236.6005	1279.05	Lower Fine Sand WBZ	13.82	1265.23	12.25	1266.80
MW-17	9987.6315	9995.5207	1278.7	Lower Fine Sand WBZ	Submerged	NA	NM	NA
MW-18	9994	10465	1275.58	Shallow WBZ	No Access	NA	8.48	1267.11
MW-19S	9956.1454	10358.207	1278.82	Shallow WBZ	No Access	NA	9.06	1267.76
MW-19D	9951.569	10355.8748	1278.21	Lower Fine Sand WBZ	No Access	NA	9.6	1266.61
MW-20	9895.0082	10224.2128	1278.64	Shallow WBZ	No Access	NA	NM	NA
MW-21D	NA	NA	NA	Lower Fine Sand WBZ	10.55	NA	9.28	NA
MW-22D	NA	NA	NA	Lower Fine Sand WBZ	10.56	NA	9.05	NA
MW-23S	NA	NA	NA	Shallow WBZ	Submerged	NA	5.13	NA
MW-23D	NA	NA	NA	Lower Fine Sand WBZ	Submerged	NA	10.81	NA
MW-24S	NA	NA	NA	Shallow WBZ	No Access	NA	6.71	NA
MW-24D	NA	NA	NA	Lower Fine Sand WBZ	No Access	NA		NA
HW-8	9834.684	10312.0885	1277.81	Shallow WBZ	No Access	NA	NM	NA
HW-9	9810.5264	10313.3873	1280.78	Shallow WBZ	No Access	NA	NM	NA
HW-10	9837.2976	9966.7406	1279.55	Shallow WBZ	NA	NA	NM	NA
RW-1S	9932.8951	10135.8706	1276.06	Shallow WBZ	11.31	1264.75	10.82	1265.24
RW-1D	9926.5997	10121.3968	1276.84	Lower Fine Sand WBZ	12.38	1264.28	10.42	1266.22
RW-2S*	9983.3801	10151.6403	1278.59	Shallow WBZ	7.55	1269.04	2.99	1273.60
RW-2D	9983.0819	10167.3168	1278.48	Lower Fine Sand WBZ	29.05	1247.41	25.52	1250.94
RW-3S	9838.0594	9990.4502	1278.29	Shallow WBZ	No Access	NA	Dry	NA
RW-5S	9863.2271	10330.2425	1277.43	Shallow WBZ	No Access	NA	4.94	1272.49
GP-1S	9954.39*	10203.02*	1278.98	Shallow WBZ	NA	NA	NM	NA
GP-2S	9914.89*	10201.04*	1278.63	Shallow WBZ	NA	NA	NM	NA
GP-2D	9914.91*	10207.84*	1278.71	Lower Fine Sand WBZ	NA	NA	NM	NA
GP-3S	9941.13*	10264.03*	1278.87	Shallow WBZ	NA	NA	NM	NA
GP-3D	9937.38*	10264.53*	1278.77	Lower Fine Sand WBZ	NA	NA	NM	NA
GP-4S	9940.86*	10154.97*	1278.08	Shallow WBZ	NA	NA	NM	NA
GP-4D	9940.85*	10151.57*	1278.08	Lower Fine Sand WBZ	NA	NA	NM	NA
GP-5S	9993.54*	10200.34*	1277.44	Shallow WBZ	NA	NA	NM	NA
GP-5D	9993.55*	10280.21*	1277.37	Lower Fine Sand WBZ	NA	NA	NM	NA
PZ-1S	NA	NA	1277.97	Shallow WBZ	NA	NA		NA
PZ-1D	NA	NA	1277.75	Lower Fine Sand WBZ	NA	NA		NA
PZ-2D	NA	NA	1277.88	Lower Fine Sand WBZ	NA	NA		NA
PZ-3D	NA	NA	1279.02	Lower Fine Sand WBZ	NA	NA	NM	NA
PZ-4D	NA	NA	1278.94	Lower Fine Sand WBZ	NA	NA		NA
PZ-5S	NA	NA	1278.58	Shallow WBZ	No Access	NA	NM	NA
PZ-5D	NA	NA	1278.52	Lower Fine Sand WBZ	No Access	NA	NM	NA
PZ-6S	NA	NA	1278.77	Shallow WBZ	No Access	NA	NM	NA
PZ-6D	NA	NA	1278.57	Lower Fine Sand WBZ	No Access	NA	NM	NA
PZ-7D	NA	NA	1275.83	Lower Fine Sand WBZ	No Access	NA	NM	NA
PZ-8D	NA	NA	1278.83	Lower Fine Sand WBZ	12.18	1266.45	NM	NA
PZ-9D	NA	NA	1278.04	Lower Fine Sand WBZ	10.76	1267.28	NM	NA
PZ-10D	NA	NA	1277.58	Lower Fine Sand WBZ	No Access	NA	NM	NA
PZ-11D	NA	NA	1278.7	Lower Fine Sand WBZ	No Access	NA	NM	NA
VP-5D	NA	NA	1278.2	Lower Fine Sand WBZ	No Access	NA	NM	NA
VP-6S	NA	NA	1278.82	Upper Gravel of LFSWBZ	Submerged	NA	NM	NA
VP-6D	NA	NA	1278.71	Lower Fine Sand WBZ	Submerged	NA	NM	NA
VP-7D	NA	NA	1278.87	Lower Fine Sand WBZ	No Access	NA	NM	NA
VP-8D	NA	NA	1277.37	Lower Fine Sand WBZ	No Access	NA		NA
Comments 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 and HW-7 destroyed during UST removal operations.					2307 Days of System Operation Majority of wells at site not accessible due to stockpiled snow or ice buildup.		2391 Days of System Operation	

Appendix B
Laboratory Certificates of Analysis

February 17, 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 February 3, 2004. Please reference Pace project number 04-0454 when inquiring about this report.

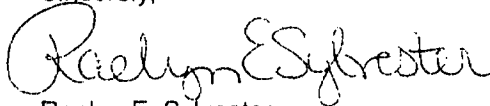
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0402-0389	Pre-Carb
0402-0390	Primary Effluent
0402-0391	Post-Carb
0402-0395	Trip Blank

General Comments: Cooler temperature 5 ° 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: 04-0454
Lab Sample ID: 0402-0389
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/31/2004
Date Received: 02/03/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	31	10	ug/l	JEC	02/09/2004	0027805-1	<10
Benzene	8260B(1)	6.4	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B(1)	15	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	14	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0402-0389

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	390	10	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	20	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<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

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: 04-0454
Lab Sample ID: 0402-0390
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 01/31/2004
Date Received: 02/03/2004

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	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	130	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0402-0390
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	100	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<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

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: 04-0454
Lab Sample ID: 0402-0391
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 01/31/2004
Date Received: 02/03/2004.

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	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0402-0391

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	29	2.0	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<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 0402-0391 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: 04-0454
Lab Sample ID: 0402-0395
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 01/31/2004
Date Received: 02/03/2004

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	02/09/2004	0027805-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	JEC	02/09/2004	0027805-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	JEC	02/09/2004	0027805-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0402-0395

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	JEC	02/09/2004	0027805-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	JEC	02/09/2004	0027805-1	<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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729806

Required Client Information: Section A

Company: URS Corp
 Address: 4955 Stearnsville Pike
Twin Towers Suite 250
Pittsburgh PA 15205
 Phone: 412-788-2717 Fax: 412-788-1316

Required Client Information: Section B

Report To: Keith Dadrill
 Copy To: _____
 Invoice To: _____
 P.O.: _____
 Project Name: Essex-Hope
 Project Number: 801419.2030

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____
 Project Manager: _____
 Project #: 04-0434
 Profile #: _____
 Requested Analysis: _____

ITEM #	Section D													Required Client Information:													Valid Matrix Codes ←		MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	SAMPLE ID													MATRIX	WT	SL	OL	WP	AR	TS	OT	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	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	841673043761	2-2-04	1	1	John S. Ross URS	2-2-04	1500	Fed Express		
					Fed ex		12:00	James Hall	2-3	10:10

SAMPLE CONDITION		SAMPLE NOTES	
Temp in °C	5	Combine 4 Post-Carb Samples into 1 for Analysis	
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: John S. Ross
 DATE Signed: (MM / DD / YY) 1-31-04

March 16, 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 March 2, 2004. Please reference Pace project number 04-0963 when inquiring about this report.

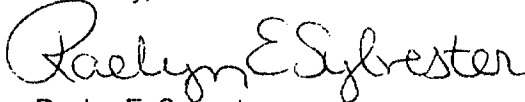
Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Identification	Client Sample Identification
0403-0526	Pre-Carb
0403-0527	Primary Effluent
0403-0528	Post-Carb
0403-0531	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present. Sample 0403-0528 was composited from 3 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: 04-0963
Lab Sample ID: 0403-0526
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2004
Date Received: 03/02/2004

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	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	8.7	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4100	50	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	19	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	5.3	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0403-0526
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	770	10	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1000	20	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	38	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<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: 04-0963
Lab Sample ID: 0403-0527
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/27/2004

Date Received: 03/02/2004

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	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	460	10	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0403-0527
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	23	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1600	20	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<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

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: 04-0963
Lab Sample ID: 0403-0528
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 02/27/2004
Date Received: 03/02/2004

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	03/07/2004	0028465-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/07/2004	0028465-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/07/2004	0028465-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0403-0528

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	190	2.0	ug/l	MAK	03/07/2004	0028465-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/07/2004	0028465-1	<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: 04-0963
Lab Sample ID: 0403-0531
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/27/2004
Date Received: 03/02/2004

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	03/08/2004	0028486-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	03/08/2004	0028486-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	03/08/2004	0028486-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0403-0531

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	03/08/2004	0028486-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	03/08/2004	0028486-1	<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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CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

www.pacelabs.com

729899

Required Client Information: Section A

Company: **URS Corp**

Address: **4955 Steubenville Pike**
Twin Tower Suite 250
Pittsburgh, PA 15205

Phone: **412-758-2717** Fax: _____

Required Client Information: Section B

Report To: **Keith Podrill**

Copy To: _____

Invoice To: _____

P.O.: _____

Project Name: **Essex-Hope**

Project Number: **801419.2030**

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: **04-0963**

Profile #: _____

Requested Analysis: _____

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.

ITEM #	Section D										Required Client Information:										Valid Matrix Codes		MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	SAMPLE ID										One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX CODES						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	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-EX	841673043750	3-1-04	1		John D. Rose / URS	3-1-04	1700	FED-EX	3-1-04	1700
					REP EX	3-2-04	10:00	James R. Hill	3-2-04	10:00

SAMPLE CONDITION

SAMPLE NOTES

Temp in °C: **5**

Received on Ice: **YIN**

Sealed Cooler: **YIN**

Samples Intact: **YIN**

Combine 4 Post-Carb
Samples into 1 for Analysis

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

John D. Rose

SIGNATURE of SAMPLER:

John D. Rose

DATE Signed (MM / DD / YY)

2-27-04

April 12, 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 April 1, 2004. Please reference Pace project number 04-1477 when inquiring about this report.

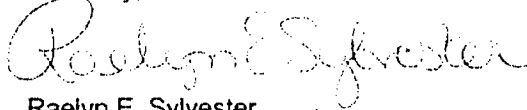
Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Sample Identification	Client Sample Identification
0404-0421	Pre-Carb
0404-0422	Primary Effluent
0404-0423	Post-Carb
0404-0428	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

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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: 04-1477
Lab Sample ID: 0404-0421
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B(1)	5.3	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B(1)	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	2500	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B(1)	6.3	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

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: 04-1477
Lab Sample ID: 0404-0422
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2004

Date Received: 04/01/2004

Client Site: Essex-Hope

Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	690	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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April 12, 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 April 1, 2004. Please reference Pace project number 04-1477 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Sample Identification	Client Sample Identification
0404-0421	Pre-Carb
0404-0422	Primary Effluent
0404-0423	Post-Carb
0404-0428	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

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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: 04-1477
Lab Sample ID: 0404-0421
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	5.3	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2500	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	10	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	6.3	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0404-0421

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	420	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	440	20	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	70	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	8.1	5.0	ug/l	MAK	04/05/2004	0029165-1	<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: 04-1477
Lab Sample ID: 0404-0422
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/30/2004

Date Received: 04/01/2004

Client Site: Essex-Hope

Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	690	10	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0404-0422

Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	920	20	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<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: 04-1477
Lab Sample ID: 0404-0423
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	28	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0404-0423

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	350	2.0	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<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. This sample was composited from four grab samples prior to analysis as requested.

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: 04-1477
Lab Sample ID: 0404-0428
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/30/2004
Date Received: 04/01/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	04/05/2004	0029165-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	04/05/2004	0029165-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	04/05/2004	0029165-1	<10
Methylene chloride	8260B ⁽¹⁾	7.7	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0404-0428
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	04/05/2004	0029165-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	04/05/2004	0029165-1	<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: **4955 Steubenville Pike**
Train Towers Suite 250
Pittsburgh, PA 15205
 Phone: **412-788-2717** Fax: _____

Required Client Information:

Section B

Report To: **Keith Dahill**
 Copy To: _____
 Invoice To: _____
 PO: _____
 Project Name: **Essex-Hope**
 Project Number: **81157115.04**

Page: of

800894

To Be Completed by Pace Analytical and Client

Section C

Quote Reference: _____
 Project Manager: _____
 Project #: **04-1477**
 Profile #: _____
 Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes		DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX CODE		mm / dd / yy	hh:mm a/p	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SITE LOCATION ☐ NC ☐ SC ☐ GA ☐ Other _____			REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other _____			RELINQUISHED BY / AFFILIATION John Ross / URS Corp	DATE 3-31-14	TIME 1700	ACCEPTED BY / AFFILIATION Fed. Ex	DATE 3-31-14	TIME 1700	
SAMPLE CONDITION Temp in °C 6 Received on Ice Y/N Sealed Cooler Y/N Samples Intact Y/N			SAMPLE NOTES Combine 4 Post-Carb samples into one for analysis			FED EX		4-1	10:00	James Kent	4-1	10:00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

John Ross

SIGNATURE of SAMPLER:

John S. Ross

DATE Signed (MM / DD / YY)

3-31-14

May 18, 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 May 4, 2004. Please reference Pace project number 04-2011 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 81157118.04

Pace Sample Identification	Client Sample Identification
0405-0484	Pre-Carb
0405-0485	Primary Effluent
0405-0486	Post-Carb
0405-0487	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: 04-2011
Lab Sample ID: 0405-0484
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2004
Date Received: 05/04/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	5.6	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3000	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0405-0484
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	620	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	6.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<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: 04-2011
Lab Sample ID: 0405-0485
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 04/30/2004

Date Received: 05/04/2004

Client Site: Essex-Hope

Client Ref.: 81157118.04

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	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	1200	50	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0405-0485
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	9.9	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	860	100	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<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: 04-2011
Lab Sample ID: 0405-0486
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 04/30/2004
Date Received: 05/04/2004

Client Site: Essex-Hope
Client Ref.: 81157118.04

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	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	30	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0405-0486
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	430	20	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<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 0405-0487 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Lab Project ID: 04-2011
Lab Sample ID: 0405-0487
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 04/30/2004
Date Received: 05/04/2004

Client Site: Essex-Hope

Client Ref.: 81157118.04

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	05/10/2004	0030120-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	05/10/2004	0030120-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	05/10/2004	0030120-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: **0405-0487**
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	05/10/2004	0030120-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	05/10/2004	0030120-1	<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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800586

Required Client Information: Section A

Company: URS, Corp

Address: 4955 Stearnsville Pike
Twin Towers Suite 250
Pittsburgh, PA 15205

Phone: 412-758-2717 Fax: _____

Required Client Information: Section B

Report To: Keith Dodrill

Copy To: _____

Invoice To: _____

P.O.: _____

Project Name: Essex-Hope

Project Number: 81157118.04

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: 04-2011

Profile #: _____

Requested Analysis: _____

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.

ITEM #	Section D										Required Client Information:										Valid Matrix Codes ←										Preservatives										Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	SAMPLE ID										One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX CODE										DATE COLLECTED											TIME COLLECTED										# Containers										Unpreserved										H ₂ SO ₄										HNO ₃										HCl										NaOH										Na ₂ S ₂ O ₃										Methanol										Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

SITE LOCATION			REGULATORY AGENCY			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
☐ NC	☐ SC	☐ GA	☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER	<u>John S. Ross</u>	<u>URS</u>	<u>5-3-04</u>	<u>1700</u>	<u>Fed. Express</u>	<u>5-3-04</u>	<u>1700</u>	
☐ Other			☐ UST	☐ RCRA	☐ Other	<u>Fed. Express</u>		<u>5-4</u>	<u>9:30</u>	<u>James Hall</u>	<u>5-4</u>	<u>9:30</u>	

SAMPLE CONDITION

Temp in °C: 7

Received on Ice: Y/N

Sealed Cooler: Y/N

Samples Intact: Y/N

SAMPLE NOTES

Combine 4 Post-Carb Samples into 1 for Analysis

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

John S. Ross

SIGNATURE of SAMPLER:

John S. Ross

DATE Signed: (MM / DD / YY)

5-3-04 1630

June 15, 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 June 1, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-2515 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0406-0438	Pre-Carb
0406-0439	Primary Effluent
0406-0440	Post-Carb
0406-0441	RW-1S
0406-0442	RW-1D

Pace Sample Identification	Client Sample Identification
0406-0443	RW-2S
0406-0444	RW-2D
0406-0445	RW-3S
0406-0446	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

Page 1 of 20

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: 04-2515
Lab Sample ID: 0406-0438
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	4.7	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	13	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0438
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	680	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	530	100	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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

Client Site: Essex-Hope
Client Ref.: 41567320

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

Lab Project ID: 04-2515
Lab Sample ID: 0406-0439
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	5.2	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2100	10	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0439
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	870	20	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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: 04-2515
Lab Sample ID: 0406-0440
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	27	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0440
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1700	20	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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. As requested, sample 0406-0440 was composited from the 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

Client Site: Essex-Hope
Client Ref.: 41567320

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

Lab Project ID: 04-2515
Lab Sample ID: 0406-0446
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-0446
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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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CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

www.pacelabs.com

729836

Required Client Information: Section A

Company: **URS**

Address: **4955 Steubenville Pike**
Twin Towers Suite 250
Pittsburgh, PA 15205

Phone: _____ Fax: _____

Required Client Information: Section B

Report To: **Keith Dodrill**

Copy To: _____

Invoice To: _____

PO: _____

Project Name: **Essex-Hope**

Project Number: **41567320**

Page: _____ of _____

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: **04-2515**

Profile #: _____

Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes MATRIX WATER SOIL OIL WIPE AIR TISSUE OTHER	CODE WT SL CL WP AR TS QT	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	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	841673043728	5-28-04	1		John S. Ross URS	5-28-04	1700	Fed Express John S. Ross	5-28-04	1700
SAMPLE CONDITION				SAMPLE NOTES Combine 4 Post-Carb						
Temp in °C	6									
Received on Ice	Y/N									

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **John S. Ross**

SIGNATURE of SAMPLER: *John S. Ross*

DATE Signed: (MM / DD / YY) **5-27-04**

Additional Comments:

July 13, 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 June 28, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-3031 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0406-2714	Pre-Carb
0406-2715	Primary Effluent
0406-2716	Post-Carb
0406-2717	Trip Blank

General Comments: Cooler temperature 8 ° 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

Page 1 of 10

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: 04-3031
Lab Sample ID: 0406-2714
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 06/25/2004
Date Received: 06/28/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	5.7	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	14	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	3200	50	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	17	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2714
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	690	50	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	100	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<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: 04-3031
Lab Sample ID: 0406-2715
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 06/25/2004
Date Received: 06/28/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	37	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2715
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1300	20	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<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: 04-3031
Lab Sample ID: 0406-2716
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 06/25/2004
Date Received: 06/28/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	280	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2716
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<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 0406-2716 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: 04-3031
Lab Sample ID: 0406-2717
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 06/25/2004
Date Received: 06/28/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	07/08/2004	0031624-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	07/08/2004	0031624-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	07/08/2004	0031624-1	<10
Methylene chloride	8260B ⁽¹⁾	93	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0406-2717
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	07/08/2004	0031624-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	07/08/2004	0031624-1	<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: **14955 Staubenville Pike**
Twin Towers Suite 250
Pittsburgh, PA 15205
Phone: **412-798-2717** Fax: _____
Project Name: **Essex-Hope**
Project Number: **41567320**

Required Client Information: Section B

Report To: **Keith Dodrill**
Copy To: _____
Invoice To: _____
P.O.: _____
Project Name: **Essex-Hope**
Project Number: **41567320**

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.

804507

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____
Project Manager: _____
Project #: **03-3031**
Profile #: _____
Requested Analysis: _____

ITEM #	Section D										Required Client Information:										Valid Matrix Codes		MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										MATRIX	CODE	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SITE LOCATION	REGULATORY AGENCY
☐ NC ☐ SC ☐ GA	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ Other _____	☐ UST ☐ RCRA ☐ Other _____

SAMPLE CONDITION

Temp in °C	8
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Combine 4 Post-Carb Samples into 1 for Analysis

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John S. Ross	6-26-04	1700	Fed-Express	6-26-04	1700
			Don D. Voss	6-26-04	1515

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **John Ross**

SIGNATURE of SAMPLER: **John S. Ross**

DATE Signed: (MM / DD / YY) **6-25-04**

Additional Comments:

COPY
SEE POTW
ANALYSIS FOR
ORIGINAL

June 15, 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 June 1, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-2515 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

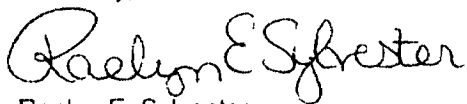
Pace Sample Identification	Client Sample Identification
0406-0438	Pre-Carb
0406-0439	Primary Effluent
0406-0440	Post-Carb
0406-0441	RW-1S
0406-0442	RW-1D

Pace Sample Identification	Client Sample Identification
0406-0443	RW-2S
0406-0444	RW-2D
0406-0445	RW-3S
0406-0446	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

Page 1 of 20

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.: 41567320

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

Lab Project ID: 04-2515
Lab Sample ID: 0406-0441
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

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	06/09/2004	0030828-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B(1)	11	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	740	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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Lab Sample ID: 0406-0441

Client Sample ID: RW-1S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	4800	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	38	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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.: 41567320

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Phone: 724.733.1161
Fax: 724.327.7793

Lab Project ID: 04-2515
Lab Sample ID: 0406-0442
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	11	10	ug/l	MAK	06/09/2004	0030828-1	<10
Benzene	8260B(1)	1.5	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B(1)	8.3	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	370	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	8.1	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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Lab Sample ID: 0406-0442
Client Sample ID: RW-1D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	8.5	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	14	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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.: 41567320

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Lab Project ID: 04-2515
Lab Sample ID: 0406-0443
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

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	06/09/2004	0030828-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	88	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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Lab Sample ID: 0406-0443
Client Sample ID: RW-2S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	450	10	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	4.7	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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 Ref.: 41567320

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Lab Project ID: 04-2515
Lab Sample ID: 0406-0444
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	34	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6400	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	32	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

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Lab Sample ID: 0406-0444

Client Sample ID: RW-2D

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	760	50	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	1600	100	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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. One surrogate was biased low in the neat analysis of this sample. Surrogate recoveries were acceptable in dilution, therefore matrix interference is suspected.

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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: 04-2515
Lab Sample ID: 0406-0445
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	06/09/2004	0030828-1	<10
Benzene	8260B ⁽¹⁾	1.8	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B ⁽¹⁾	7.4	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	43	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

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Lab Sample ID: 0406-0445
Client Sample ID: RW-3S

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	4.8	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	59	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	16	5.0	ug/l	MAK	06/09/2004	0030828-1	<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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Fax: 724.327.7793

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

Lab Project ID: 04-2515
Lab Sample ID: 0406-0446
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 05/27/2004
Date Received: 06/01/2004

Client Site: Essex-Hope
Client Ref.: 41567320

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	06/09/2004	0030828-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	06/09/2004	0030828-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	06/09/2004	0030828-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0

(Continued)

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Lab Sample ID: 0406-0446
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	06/09/2004	0030828-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	06/09/2004	0030828-1	<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 C

Required Client Information: **Section 8**

Page: of

To Be Completed by Pace Analytical and Client

Company URS		Copy To:	Client Information (Check quote/contract):		Quote Reference:
Address 4955 Steubenville Pike		Invoice To:	Requested Due Date:	*TAT:	Project Manager:
Thru Towers Site 250		PO	• 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 #:
Pittsburgh, PA 15205		Project Name Essex-Hope			Profile #:
Phone	Fax	Project Number: 41567320			Requested Analysis:

Section D Required Client Information:

SAMPLE ID

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

Sample IDs MUST BE UNIQUE

<u>MATRIX</u>	<u>CODE</u>
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

MATRIX CODE

DATE COLLECTED

TIME
COLLECTED

Containers

Preservatives

Unpreserved
H_2SO_4
HNO_3
HCl
NaOH
$\text{Na}_2\text{S}_2\text{O}_3$
Methanol

2 COPY
SEE POTW
ANALYSIS
FOR ORIGINAL

Remarks / Lab ID

[illegible]

SHIPMENT METHOD		AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Fed Express		841673043728	5-28-04	1		John Kom URS	5-28-04	1700	Fed Express	5-28-04	1700
SAMPLE CONDITION					SAMPLE NOTES						
Temp in °C	(C)	Combine 4 Post-Carb									
Received on Ice	(X)										

Combine 4 Post-Carb
Samples into 1 for Analysis

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER.

PRINT Name of SAMPLER: John S. Ross

SIGNATURE of SAMPLER:

John L. Rosen

DATE Signed: (MM/DD/YY)

DATE SIGNED: 5-27-04

Additional Comments: