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May 28, 2002

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

Subject: **1st Quarter 2002 Performance Monitoring Report**
Essex/Hope Site — Jamestown, New York
URS Project No. 801419

Dear Mr. Moore:

This letter report is a summary of the 1st Quarter 2002 operational performance for the remedial system at the above-referenced site in accordance with the June 1997 Performance Monitoring Plan (PMP) prepared by Radian International LLC. During the quarter approximately 269,700 gallons of water was treated and discharged to the City of Jamestown POTW from the site. The following sections discuss the data on groundwater quality sampling and groundwater flow. No soil sampling related to the system performance monitoring was conducted during this reporting period.

GROUNDWATER FLOW EVALUATION

Water level measurements were taken on January 15, 2002, February 20, 2002 and March 28, 2002 during the reporting quarter. Water level data is provided in Appendix A of this report. Groundwater contour maps representative of 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.

The shallow recovery wells RW-1S, -2S, -3S, -4S and RW-5S were redeveloped by jetting between February 25, 2002 and March 6, 2002 to increase pumping efficiency.

Shallow Water-Bearing Zone

Water table contour maps representing pumping conditions in the upper water-bearing zone on February 20, 2002 is provided as Figure 1. Water table drawdown conditions at the site remained relatively similar to previous data recorded during 2001. Shallow groundwater was extracted at an average rate of 0.6 gallons per minute (gpm) from the NPL Area, 0.01 to 0.04 gpm from the AST/UST Area and 0.13 gpm from the UST Area.

Recovery wells RW-4S and RW-5S were inoperable between December 10, 2001 and January 23, 2002 due to damaged electrical and groundwater discharge lines. The lines were damaged during tank uncovering activities in the UST Area for Biox treatment of the former underground storage tanks. The electrical system and groundwater lines were repaired and the wells restarted on January 23, 2002.

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.

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A potentiometric surface contour map representing pumping conditions on February 20, 2002 is provided as Figures 2. The cone of depression around RW-2D is similar to the 4th Quarter 2001 data with the potentiometric surface elevations approximately 2-ft higher in elevation. Groundwater was extracted from the deep zone at a rate between 1.7 to 2.2 gpm over the reporting period.

WATER QUALITY RESULTS

First Quarter 2002 performance monitoring included quarterly sampling of all recovery wells and monthly influent and effluent sampling of the site pre-treatment system. The recovery well samples were taken on March 29, 2002, and the monthly influent/effluent samples were collected on January 27, 2002, March 1, 2002 and March 28, 2002. Antech Ltd. 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. Historical analytical results for individual recovery wells are summarized in Tables 2 through 8. Table 9 summarizes the monthly influent and effluent sample results. Copies of the laboratory data packages for the quarterly samples and the monthly treatment plant influent and effluent samples are found in Appendix B. The following sections discuss the analytical data for each remedial area.

NPL Area – Shallow Zone

Constituents detected in RW-1S (Table 2) during the March sampling round included: TCE (2,300 ug/L), vinyl chloride (87 ug/L), cis-1,2-DCE (760 ug/L), 1,1-DCE (5.4 ug/L) and trans-1,2-DCE (12 ug/L) - all other VOC's were non-detect. TCE increased slightly from 1,800 ug/l recorded during the previous quarterly sampling event. Vinyl chloride decreased from 187 ug/l detected in January. Results for cis-1,2-DCE, 1,1-DCE, and trans-1,2-DCE remained at similar levels.

Constituents detected at RW-2S (Table 3) included TCE (7.7 ug/L), vinyl chloride (5.6 ug/L) and cis-1,2-DCE (99 ug/L) – all other VOCs were below detection limits. These compounds have shown a decreasing trend over the previous year since November 2000. TCE has decreased by an order of magnitude since September 2001 where it was detected at 2,900 ug/L. Vinyl chloride detected at 470 ug/L in November 2000 has steadily decreased in concentration. Cis-1,2-DCE first analyzed in March 2001 at 620 ug/L also shows a steady decline in concentration. Note that these compounds initially increased after the zero-valent iron injection activities in the NPL Area in August 2000. The increased concentrations were attributed to subsurface disturbance from the injection activities and chemical reactions.

NPL Area – Lower Fine Sand Water Bearing Zone

Constituents detected at RW-1D (Table 7) during the 1st Quarter included vinyl chloride (52 ug/L), 1,1-DCE (25 ug/L), cis-1,2-DCE (3,000 ug/L), trans-1,2-DCE (41 ug/L), TCE (62 ug/L), and benzene (9.7 ug/L) - all other VOC's were non-detect. Cis-1,2-DCE concentrations increased from an average of 1,500 ug/L in 2001 to 3000 ug/L for the recent sampling round. 1,1-DCE and trans-1,2-DCE showed slight increases in concentration as compared to previous data. Vinyl chloride was reduced from 360 ug/L detected in January 2002. TCE and benzene remained relatively similar to previous concentration data.

Compounds detected at RW-2D (Table 8) included: vinyl chloride (1,700 ug/L), 1,1-DCE (33 ug/L), cis-1,2-DCE (12,000 ug/L), trans-1,2-DCE (29 ug/L), TCE (150 ug/L), and benzene (9.9 ug/L). TCE continues to decrease at this location since the installation of the pilot permeable reactive wall (PRW) around the recovery well, with the most recent concentration the lowest recorded for this well. Cis-1,2-DCE and vinyl chloride, breakdown components of TCE, continue to show increases in concentration. 1,1-DCE, trans-1,2-DCE and benzene remained at concentrations comparable to previous data.

AST/UST Area
Constituents detected at RW-3S (Table 4) during the 1st Quarter were vinyl chloride (17 ug/L), cis-1,2-DCE (6.3 ug/L), benzene (1.3 ug/L), ethylbenzene (11 ug/L) and total xylenes (55 ug/L). All other VOCs were non-detect. Of these compounds, cis-1,2-DCE had not previously been detected at this location. Vinyl chloride has been detected at times between 2 and 11 ug/L. Benzene, ethylbenzene and xylenes concentrations were lower than previously detected in January 2002 at 52 ug/L for benzene, 310 ug/L for ethylbenzene and 590 ug/L for xylenes. Isopropylbenzene was below detection limits (<5 ug/L) for the first time at this location.

UST Area
Constituents detected during the reporting period at RW-4S (Table 5) included acetone (29 ug/L), cis-1,2-DCE (9.3 ug/L), 4-methyl-2-pentanone (20 ug/L), isopropylbenzene (170 ug/L), benzene (18 ug/L), toluene (2,500 ug/L), and total xylenes (88,000 ug/L); all other VOC's were non-detect. Xylenes showed an increase in concentration from 64,000 ug/L in January 2002 to 88,000 ug/L for the March sampling round. Toluene continues to show a decreasing trend over the last year. Cis-1,2-DCE was positively detected for the first time during this sampling round. Ethylbenzene was not detected in this sampling episode, previously it was detected at 7,900 ug/L in January 2002. Ethylbenzene also was below detection limits in September of 2001.

VOCs detected at RW-5S (Table 6) included acetone (35 ug/L), isopropylbenzene (15 ug/L), toluene (6.9 ug/L), ethylbenzene (83 ug/L) and xylenes (274 ug/L). Acetone showed a slight increase as compared to the January 2002 results at 11 ug/L. Concentrations for xylenes were higher than the previous quarter's results at 11 ug/L, but concentrations for this compound have been variable over time. Concentrations for toluene and ethylbenzene have been variable over time.

Treatment Plant Influent/Effluent
The waste stream influent and effluent concentrations for the 1st Quarter of 2002 are shown on Table 9. Influent data (Pre-Carb) reflect a composite from all the groundwater extraction wells prior to pre-treatment. Primary Carbon data represents the effluent from the first carbon treatment unit prior to the second treatment unit. Effluent data (Post-Carb) represents pre-treated water prior to discharge to the City of Jamestown Publicly Owned Treatment Works (POTW). System influent data as related to extracted groundwater conditions for the quarter are discussed below.

Constituents detected in the influent during the 1st Quarter included: vinyl chloride (520 to 720 ug/L), acetone (<5.0 to 62 ug/L), 1,1-DCE (9.2 to 18 ug/L), cis-1,2-DCE (3,500 to 5,700 ug/L), trans-1,2-DCE (9.3 to 41 ug/L), TCE (230 to 320 ug/L), isopropylbenzene (6.5 to 9.6 ug/L), benzene (3.8 to 7.2 ug/L), toluene (170 to 250 ug/L), ethylbenzene (400 to 510 ug/L) and xylenes (3,210 to 4,200 ug/L). Influent concentration ranges were similar to those recorded during the 4th Quarter of 2001.

Constituents detected in the system effluent during February and March 2002 included vinyl chloride (8.2 and 240 ug/L) and acetone (1,500 and 1,900 ug/L). As reported in the April 8, 2002 correspondence to the Jamestown Board of Public Utilities (BPU) and NYSDEC, the site pre-treatment system effluent exceeded the permit limits of 2,130 ug/l for total organic toxics during the month of March 2002. Approximately 2,140 ug/l total VOCs was detected in the system effluent sample collected on March 28, 2002. The pumping system was shut down on April 3, 2002 after receipt of the analytical data, and re-started on April 13, 2002 after the completion of a carbon change-out.

ANALYTICAL LABORATORY

Antech Ltd. has been purchased by Pace Analytical Services, Inc. As of May 1, 2002, the performance monitoring samples will be analyzed by Pace Analytical Services, Inc at the same laboratory location in Export, Pennsylvania. The existing New York State Laboratory Certification held by Antech Ltd. will be maintained by Pace Analytical Services, Inc.

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 quarterly basis. If you have any questions or desire additional information, please do not hesitate to call me at (412) 788-2717 Extension 1269.

Sincerely yours,

Keith A. Dodrill
Project Manager

cc: Ben Baker
John Ross
Dr. Anders G. Carlson – NY State Dept. of Health
Cameron O'Connor – NY State Dept. of Health
Andrew English – Chief, Bur. of Western Remedial Action
Glen R. Bailey – Dept. of Environmental Enforcement
Randall Peterson – Jamestown Board of Public Utilities
Carlo J. Montisano – Custom Production MFG., Inc

TABLES

Table 1
Recovery Well Analytical Results
1st Quarter Sampling
March 29, 2002

Volatile Compounds (Method 8260A)	Site GW RAOs (ug/L)	RW-1S Mar-29-02 (ug/L)	RW-1D Mar-29-02 (ug/L)	RW-2S Mar-29-02 (ug/L)	RW-2D Mar-29-02 (ug/L)	RW-3S Mar-29-02 (ug/L)	RW-4S Mar-29-02 (ug/L)	RW-5S Mar-29-02 (ug/L)	Trip Blank Mar-29-02 (ug/L)
Chloromethane	-	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	5	**87**	**52**	**5.6**	**1700**	**17**	<2	<2	<2
Methylene Chloride	-	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	-	<5	<5	<5	<5	<5	**29**	**35**	<5
1,1-Dichloroethene	-	**5.4**	**25**	<5	**33**	<5	<5	<5	<5
cis-1,2-Dichloroethene	-	**760**	**3000**	**99**	**12000**	**6.3**	**9.3**	<5	<5
trans-1,2-Dichloroethene	5	**12**	**41**	<5	**29**	<5	<5	<5	<5
1,1-Dichloroethane	-	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	-	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone	-	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-Pentanone	-	<5	<5	<5	<5	<5	**20**	<5	<5
Trichloroethene	5	**2300**	**62**	**7.7**	**150**	<5	<5	<5	<5
Isopropylbenzene	-	<5	<5	<5	<5	<5	**170**	**15**	<5
Benzene	-	<1	**9.7**	<1	**9.9**	**1.3**	**18**	<1	<1
Tetrachloroethene	-	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	5	<5	<5	<5	<5	<5	**2500**	**6.9**	<5
Ethylbenzene	5	<5	<5	<5	<5	**11**	<5	**83**	<5
Total Xylenes	5	<5	<5	<5	<5	**55**	**88000**	**274**	<5

Table 2
RW-1S
Quarterly Sample Results

Volatile Compounds (Method 8260)	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)
Vinyl Chloride	5	240	< 25	< 5	32	110	<5	11 J	20	6	3	1	<1	<5	<1	470 D	320 D	28	150	160	180	87
Methylene Chloride	-	<17	< 35[a]	11	< 5	<100	18	10 J	< 5	<1	1[B]	2	2[B]	<5	4[B]	8	6.01[B]	<5	<5	<5	<5	<5
Acetone	-	10	< 58[a]	< 10	< 10	<200	<25	<50	< 10	<5	<5	9	<5	<10	<5	15 [B]	<5	<5	<5	<5	50	<5
1,1-Dichloroetnene	-																2.5	<5	<5	<5	5.4	5.4
cis-1,2-Dichloroethene	-																	44	530	1,200	780	760
trans-1,2-Dichloroethene	5	1,700	160	< 5	< 5	<100	<5	<25	9	2	2	<1	<1	<5	<1	77	7.2	<5	<5	11	<5	12
Chloroform	-		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<1	<5	<5	<5	<5	<5
2-Butanone	-		120	< 10	< 10	<200	<5	<50	< 10	<5	<5	<5	<5	<10	<5	9	<5	<5	<5	<5	<10	<5
Trichloroethene	5	3,500	460	< 5	1,900 D	12,000	910	570	1,300	180 D	590	41	37	41	24	150	120	100	1,500	3,300	1,800	2,300
Isopropylbenzene	-			< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	14	6.1	<5	<5	<5	<5	<5
Benzene	-		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<5	<1
Toluene	5		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	4	1.34	<5	<5	<5	<5	<5
Ethylbenzene	5		< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	<1	<1	<5	<1	9	2.52	<5	<5	<5	<5	<5
Total Xylenes	5	4	< 25	< 5	< 5	<100	<5	<25	< 5	<1	<1	2	5	<5	<3	78	22	<5	<5	<5	<5	<5

Polychlorinated Biphenyls (PCBs) (Method 8082)	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		< 0.10	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	0.1	<1	< 0.10	N/A	< 0.3	< 0.3	<0.1	0.032 J	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1		< 0.10	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

N/A = Not analyzed

Table 3
RW-2S
Quarterly Sample Results

Volatile Compounds (Method 8260A)	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)
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
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
Acetone	-	<10/<10	< 10	< 500	< 10	<50	<5	<10	< 10	<5	<50	<5	<5	<10	<5	65[B]	<5	<5	<5	<5	<10	<5
1,1-Dichloroethene	-																32	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene																		620	400	500	110	99
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
Chloroform	-		< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	<2	<1	<5	<5	<5	<5	<5
2-Butanone	-		< 10	< 500	< 10	<50	<5	<10	< 10	<5	<50	<5	<5	<10	<5	21	<5	<5	<5	<5	<10	<5
1,1,2-Trichloroethane	-																1.05	<5	<5	<5	<5	<5
Trichloroethene	5	7,700/10,000	410 D	3,700	750 D	380	120	970 E	1,100	1,900 D	2,700	1,500 D	17	46	490 D	43	6,400 D	1,500	2,200	2,900	22	7.7
Isopropylbenzene	-			< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	2	1.54	<5	<5	<5	<5	<5
Benzene	-		< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	<2	<1	<1	<1	<1	<5	<1
Tetrachloroethene	-																2.93	<5	<5	<5	<5	<5
Toluene	5		< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	<1	<1	<5	<1	<2	2.01	<5	<5	<5	<5	<5
Ethylbenzene	5		< 5	< 250	< 5	<25	<1	<5	< 5	<1	<10	3	<1	<5	<1	2	1.34	<5	<5	<5	<5	<5
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

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		< 0.10	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

** Sample results reported represent the highest values obtained from the 5.5 hr and 29 hr samples.

E = Concentration exceeded calibration range of instrument.

J = Estimated Concentration

N/A = Not analyzed

Table 4
RW-3S
Quarterly Sample Results

Volatile Compounds (Method 8260A)	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)
Vinyl Chloride	5	< 1000	< 500	11	<250	<10	<50	< 5	11	<2	<1	<2	<5	<2	2	<2	<2	<2	<2	<5	17
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
Acetone	-	< 2000	< 1000	14	<500	<50	<100	< 10	<5	15	<5	<10	10	18[B]	<5	<10	<5	<5	<5	<10	<5
cis-1,2-Dichloroethene	-																				6.3
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
1,1-Dichloroethane	-	<1000	<500	<5	<250	<50	<50	<5	2	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5
Chloroform	-	< 1000	< 500	< 5	<250	<10	<50	< 5	<1	<2	<1	<2	<5	<2	<1	<2	<5	<5	<5	<5	<5
2-Butanone	-	< 2000	< 1000	< 10	<500	<50	<100	< 10	<5	<10	<5	<10	<10	<10	<5	<10	<5	<5	<5	<10	<5
Trichloroethene	5	< 1000	< 500	< 5	<250	<10	<50	< 5	87 D	<2	<1	2	<10	<2	2	2.66	<5	<5	<5	<5	<5
Isopropylbenzene	-		< 500	160	<250	71	110	24	83	3	34	39	13	47	50	24	17	38	27	56	<5
Benzene	-	< 1000	< 500	21	<250	15	16 J	9	17	<2	7	11	<5	12	18	11	7.7	35	21	52	1.3
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
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
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

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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

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

N/A = Not analyzed

Table 5
RW-4S
Quarterly Sample Results

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

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

Notes:

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

N/A = Not analyzed

Table 6
RW-5S
Quarterly Sample Results

Volatile Compounds (Method 8260A)	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)
Vinyl Chloride	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	2	<1	<1	<5	<1	<1	~~<100~~	<2	<2	14	<5	<5
Methylene Chloride	-	< 130[B]	580	< 10	<10	8	<25	34	1	1[B]	<1	2[B]	<5	4[B]	9	~~340~~	<5	<5	<5	<5	<5
Acetone	-	< 200	< 200	< 20	<20	<10	33 J	11	<5	<5	<5	<5	<10	<5	16[B]	~~<500~~	<5	<5	<5	14	35
cis-1,2-Dichloroethene																			180	<5	<5
trans-1,2-Dichloroethene	5	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	~~<100~~	<5	<5	<5	<5	<5
Chloroform	-	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	~~<100~~	<5	<5	<5	<5	<5
2-Butanone	-	< 200	440	< 20	<20	66	69	< 10	<5	<5	<5	<5	<10	<5	<1	~~<500~~	<5	<5	<5	<10	<5
1,2-Dichloropropane		<100	<100	<10	<10	<2	<25	<5	<1	<5	1	<1	<5	<1	<1	~~<100~~	<5	<5	<5	<5	<5
Trichloroethene	5	< 100	< 100	< 10	<10	34	<25	7	<2[B]	7	<1	<1	<5	<1	<1	~~<100~~	<5	<5	6.2	<5	<5
Isopropylbenzene	-		< 100	< 10	<10	6	8 J	11	7	<1	4	3	<5	5	4	~~170~~	<5	<5	6.9	<5	15
Benzene	-	< 100	< 100	< 10	<10	<2	<25	< 5	<1	<1	<1	<1	<5	<1	<1	~~<100~~	<1	<1	<1	<5	<5
Toluene	5	< 100	< 100	17	15	520	890	320	94	7	16	<1	<5	15	7	~~6,100~~	<5	12	370	<5	6.9
Ethylbenzene	5	620	420	35	<10	57	92	120	74	3	53	22	<5	41	29	~~16,000~~	35	20	91	<5	83
Total Xylenes	5	2,000	2,300	410	86	520	640	570	330	26	660 D	63	12	82	68	~~73,000 D~~	186	231	445	11	274

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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	< 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	N/A	0.28 J	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	0.1	0.042 J	N/A	< 0.3	< 0.3	<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

The November 2000 analytical data is considered suspect and non-representative of Recovery Well RW-5S.

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

J = Estimated Concentration

Table 7
RW-1D
Quarterly Sample Results

Volatile Compounds (Method 8260A)	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)
Chloromethane	-										4	<2	<1	<5	<1	<1	<5	<5	<5	<5	<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
Methylene Chloride	-	< 8[B]	14	< 5	<5	3	2 J	< 5	<1	1[B]	3	24[B]	11[B]	27[B]	<1	<1	<5	<5	<5	<5	<5
Acetone	-	< 19[B]	< 10	< 10	37	<5	<10	< 10	<5	<5	<10	<10	14[B]	<25	4 J[B]	<5	<5	<5	<5	12	<5
1,1-Dichloroethene	-	<5	<5	<5	<5	<1	<5	<5	3	4	2	54	85	53	11	41	10	12	12	<5	25
cis-1,2-Dichloroethene																	1,500	1,700	1,400	180	3,000
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
Chloroform	-	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	1	<5	<1	<1	<5	<5	<5	<5	<5
2-Butanone	-	< 10	< 10	< 10	<10	<5	<10	< 10	<5	<5	<10	<10	<5	<25	<5	<5	<5	<5	<5	<10	<5
Trichloroethene	5	< 5	< 5	< 5	<5	<1	3 J	6	<10[B]	19	<2	38	8	25	16	150	<5	14	73	<5	62
Isopropylbenzene	-		< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5
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
Toluene	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5
Ethylbenzene	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<1	<5	<1	<1	<5	<5	<5	<5	<5
Total Xylenes	5	< 5	< 5	< 5	<5	<1	<5	< 5	<1	<1	<2	<2	<3	<15	<3	<1	<5	<5	<5	<5	<5

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

Notes:

B = Qualified as non-detect due to blank contamination

D,* = Analyzed with dilution. See laboratory reports for dilution factors.

J = Estimated Concentration

N/A = Not analyzed

Table 8
RW-2D
Quarterly Sample Results

Volatile Compounds (Method 8260A)	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)
Vinyl Chloride	5	32	32	< 50	71	<250	83/<25	110 J	150	190	280	190 D	<20	210	150	160 D	120 D	530	610	1,300	1,100	1,700
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
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
1,1-Dichloroethene	-		<5	<50	<5	<250	<25	>120	<5	5	6	<1	65	6	<10	12	25	17	16	25	25	33
cis-1,2-Dichloroethene																		5,200	4,200	7,900	7,800	12,000
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
Chloroform	-		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5
2-Butanone	-		130	270	< 10	<500	<25/<25	<250	< 10	<5	<5	<5	<100	<10	<50	16	<5	<5	<5	<5	<10	<5
Trichloroethene	5	5,600	2,200 D	1,900 D	4,500 D	4,900	2,200/2,500	3,200	4,700	4,500 D	4,000	2,800 D	18,000 D	1,900 D	3,100	3,000 D	4,400 D	1,100	270	330	310	150
Isopropylbenzene	-			< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5
Benzene	-		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	<5	<10	3	4.7	6.5	7.2	7.5	9.2	9.9
Tetrachloroethene	-		<5	<50	<5	<250	<25	<120	<5	1	1	1	<20	<5	<10	<1	1.04	<5	<5	<5	<5	<5
Toluene	5		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	<1	<20	<5	<10	<1	<1	<5	<5	<5	<5	<5
Ethylbenzene	5		< 5	< 50	< 5	<250	<25/<25	<120	< 5	<1	<1	2	<20	7	<10	<1	<1	<5	<5	<5	<5	<5
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

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		< 0.10	N/A	< 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		< 0.20	N/A	< 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		< 0.10	N/A	< 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		< 0.10	N/A	< 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		< 0.10	N/A	< 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	N/A	< 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		< 0.10	N/A	< 0.3	< 0.3	<0.1/<0.1	<0.1	< 0.1	< 0.1	<0.10	<0.10	<0.10	<0.10

Notes:

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

N/A = Not analyzed

Table 9
POTW Monthly Monitoring Summary
2002 System Influent/Effluent Data
Volatile Organic Compounds

Pre-Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-02 (ug/L)	May-02 (ug/L)	Jun-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Chloromethane	<5.0	<5.0	<5.0									
Vinyl Chloride	720	640	520									
Methylene Chloride	<5.0	<5.0	<5.0									
Acetone	<5.0	62	14									
1,1-Dichloroethene	18	11	9.2									
cis-1,2-Dichloroethene	5,700	4,700	3,500									
trans-1,2-Dichloroethene	34	41	9.3									
Chloroform	<5.0	<5.0	<5.0									
2-Butanone	<5.0	<5.0	<5.0									
Trichloroethene	320	240	230									
Isopropylbenzene	6.5	9.6	7									
Benzene	7.2	6.5	3.8									
Toluene	170	250	240									
Ethylbenzene	400	460	510									
Total Xylenes	3,740	3,210	4,200									
Pre-Carb TOTAL VOCs	11,115.7	9,630.1	9,243.3									

Primary Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-02 (ug/L)	May-02 (ug/L)	Jun-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Chloromethane	<0.5	<5.0	<5.0									
Vinyl Chloride	700	1,300	1,100									
Methylene Chloride	<0.5	<5.0	<5.0									
Acetone	<0.5	3,700	270									
1,1-Dichloroethene	<0.5	<5.0	<5.0									
cis-1,2-Dichloroethene	9	27	110									
trans-1,2-Dichloroethene	<0.5	<5.0	<5.0									
Chloroform	<0.5	<5.0	<5.0									
2-Butanone	<0.5	13	29									
Trichloroethene	<0.5	<5.0	<5.0									
Isopropylbenzene	<0.5	<5.0	<5.0									
Benzene	<1	<1.0	<1.0									
Toluene	<0.5	<5.0	<5.0									
Ethylbenzene	<0.5	<5.0	<5.0									
Total Xylenes	<0.5	<5.0	7.9									
Primary-Carb TOTAL VOCs	709	5,040	1,516.9									

Post-Carbon Analytical Results	Jan-27-02 (ug/L)	Mar-1-02 (ug/L)	Mar-28-02 (ug/L)	Apr-02 (ug/L)	May-02 (ug/L)	Jun-02 (ug/L)	Jul-02 (ug/L)	Aug-02 (ug/L)	Sep-02 (ug/L)	Oct-02 (ug/L)	Nov-02 (ug/L)	Dec-02 (ug/L)
Chloromethane	<5.0	<5.0	<5.0									
Vinyl Chloride	<2	8.2	240									
Methylene Chloride	<5.0	<5.0	<5.0									
Acetone	<5.0	1,500	1,900									
1,1-Dichloroethene	<5.0	<5.0	<5.0									
cis-1,2-Dichloroethene	<5.0	<5.0	<5.0									
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0									
Chloroform	<5.0	<5.0	<5.0									
2-Butanone	<5.0	<5.0	<5.0									
Trichloroethene	<5.0	<5.0	<5.0									
Isopropylbenzene	<5.0	<5.0	<5.0									
Benzene	<1	<1.0	<5.0									
Toluene	<5.0	<5.0	<5.0									
Ethylbenzene	<5.0	<5.0	<5.0									
Total Xylenes	<5.0	<5.0	<5.0									
Post-Carb TOTAL VOCs	ND	1,508.2	2,140									

Notes:
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 to the POTW.

B = Qualified as non-detect due to blank contamination
D = Analyzed with dilution, see laboratory reports for dilution factor
J = Estimated Concentration
ND = Non detect
NS = Not Sampled
NA= Not Analyzed

FIGURES

LEGEND

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

PLANT NORTH

TRUE NORTH

HOPES ARCHITECTURAL PRODUCTS

MW-16S (1267.24)

MW-14S (1267.59)

RW-2S (1267.49)

MW-15S (1267.01)

HOPKINS AVENUE

MW-18 (1266.16)

MW-6 (1269.90)

CONC. ASPHALT

GP5S (1269.32)

OLD BUILDING FOUNDATION

MW-7 (1269.89)

MW-11 (1269.15)

GP4S (1270.03)

GP1S (1270.05)

GP3S (1269.71)

MW-19S (1266.95)

MW-10 (1270.27)

PZ-6S (1268.06)

VP-6S (1266.56)

CONC. SILO

CONC. RAMP UP

WATER TREATMENT BUILDING

RW-1S (1265.81)

MW-12 (1270.07)

GP2S (1271.10)

MW-20 (1271.56)

PZ-5S (1270.05)

FORMER PLANT 5

HW-10 (1271.08)

TW1 (1273.39)

RW-5S (1269.52)

TANK FARM

HW-7 (1272.02)

HW-8 (1272.08)

RW-4S (1268.97)

HW-9 (1271.76)

MW-2

RW-3S (1269.00)

2-STY. FRAME & CONC. BLOCK BLDG.

ANGOVE AVENUE

MW-5 (1272.77)

MW-4 (1271.61)

3-STY. BRICK BUILDING

FORMER ESSEX SPECIALTY PRODUCTS FACILITY

MW-13 (1269.72)

MW-1 (1267.68)

1272 1271 1270 1269 1268 1267

BLACKSTONE AVENUE

0 60 120

SCALE IN FEET

VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929).

FILE: J:\ESSEX\HOPE\7138\801419\801419106.DWG

00 55 10 48 00 22 KK CG

URS

WATER TABLE CONTOUR MAP FEBRUARY 20, 2002

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC. — JOB NUMBER: 801419.2040

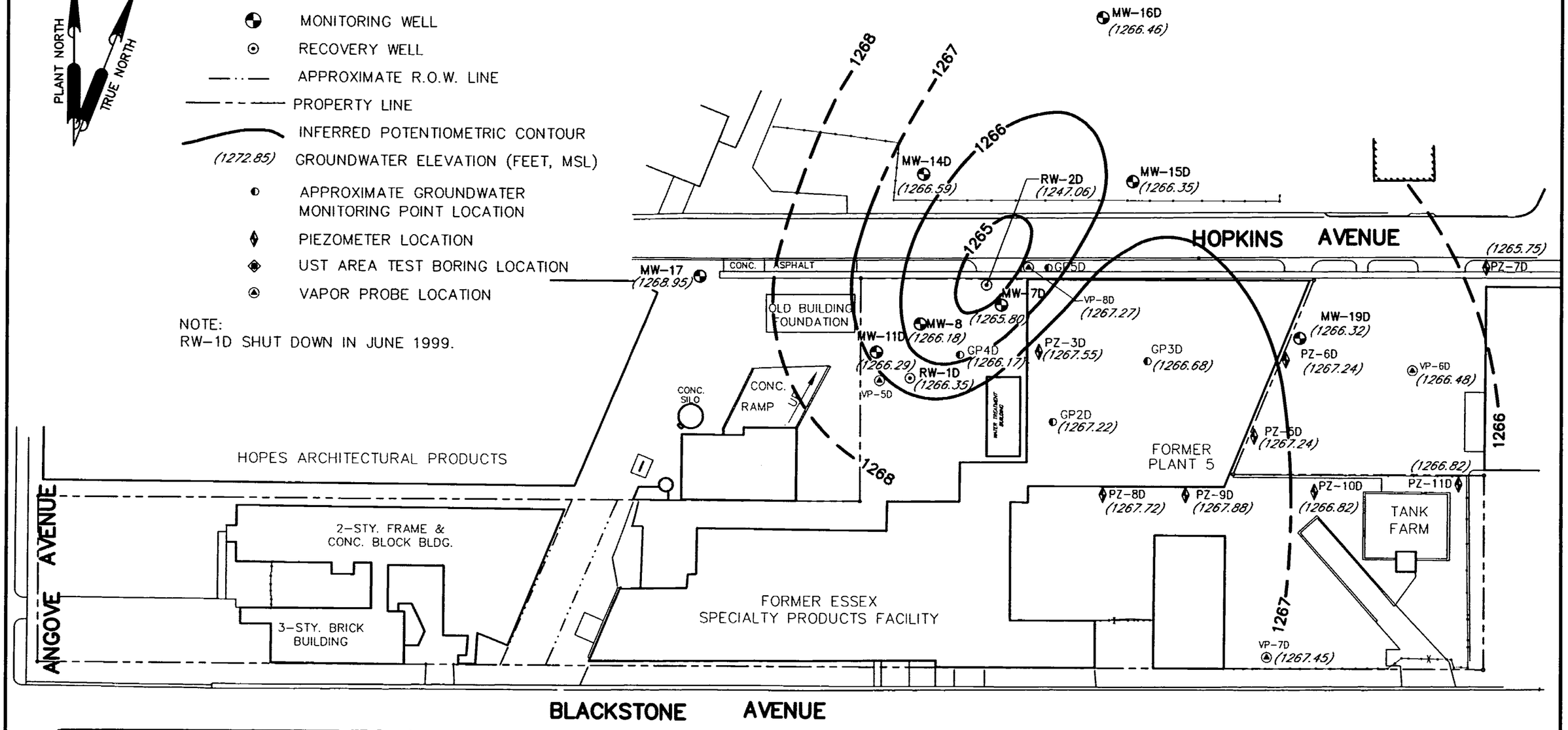
SCALE: AS SHOWN — FIGURE NUMBER 1 — REV 0

LEGEND

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

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

PLANT NORTH
TRUE NORTH



0 60 120
SCALE IN FEET

VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929).

00 55 10 49 00 22 KK GG

URS

POTENTIOMETRIC CONTOUR MAP LOWER FINE SAND WATER BEARING ZONE FEBRUARY 20, 2002

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC. — JOB NUMBER: 801419.2040

SCALE: AS SHOWN — FIGURE NUMBER 2 — REV 0

FILE: J:\ESSEXHOP\7138\801419\801419109.DWG

APPENDIX A

WATER LEVEL MEASUREMENT DATA

Groundwater Extraction System Monitoring Data
January through March 2002 Water Levels

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

Well No.	Northing	Easting	Reference Elevation (ft msl)	Screened Zone	January 15, 2002		February 20, 2002		March 28, 2002	
					Depth to Water	Groundwater Elevation (ft msl)	Depth to Water	Groundwater Elevation (ft msl)	Depth to Water (ft toc)	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48	Shallow WBZ	13.56	1266.92	12.80	1267.68	12.11	1268.37
MW-2	9837.1531	9959.6857	1279.87	Shallow WBZ	Dry	NA	Dry	NA	8.07	1271.80
MW-4	9792.3277	9900.7631	1281.02	Shallow WBZ	9.56	1271.46	9.41	1271.61	9.02	1272
MW-5	9789.6222	9631.761	1280.82	Shallow WBZ	8.21	1272.61	8.05	1272.77	7.91	1272.91
MW-6*	9977.1197	10118.8762	1277.98	Shallow WBZ	8.43	1269.55	8.08	1269.9	7.93	1270.05
MW-7*	9976.6467	10175.6797	1277.73	Shallow WBZ	7.81	1269.92	7.84	1269.89	7.61	1270.12
MW-10	9932.4702	10185.7078	1277.94	Shallow WBZ	7.32	1270.62	7.67	1270.27	5.71	1272.23
MW-11*	9937.9912	10101.7016	1277.75	Shallow WBZ	8.82	1268.93	8.60	1269.15	7.46	1270.29
MW-12	9883.0874	10104.9278	1278.18	Shallow WBZ	9.67	1268.51	8.11	1270.07	6.98	1271.2
MW-13	9752.0619	10240.2934	1278.12	Shallow WBZ	11.74	1266.38	8.40	1269.72	5.93	1272.19
MW-14S	10048.7753	10135.5198	1280.25	Shallow WBZ	13.43	1266.82	12.66	1267.59	12.27	1267.98
MW-15S	10051.8272	10254.4862	1279.55	Shallow WBZ	13.36	1266.19	12.54	1267.01	11.72	1267.83
MW-16S	10146.7788	10236.8582	1279.32	Shallow WBZ	12.73	1266.59	12.08	1267.24	11.30	1268.02
MW-18	9994	10465	1275.59	Shallow WBZ	10.09	1265.50	9.43	1266.16	8.71	1266.88
MW-19S	9956.1454	10358.207	1276.82	Shallow WBZ	10.16	1266.66	9.87	1266.95	8.99	1267.83
MW-20	9895.0082	10224.2128	1278.64	Shallow WBZ	6.61	1272.03	7.08	1271.56	5.94	1272.7
HW-1	9874.8053	10079.0259	1281.91	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-2	9977.6477	10079.7882	1281.13	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-3	9866.163	9957.6007	1283.24	Shallow WBZ	NA	NA	NA	NA	NA	NA
HW-7	9837.3164	10293.8428	1277.55	Shallow WBZ	5.61	1271.94	5.53	1272.02	NA	NA
HW-8	9834.664	10312.0885	1277.81	Shallow WBZ	6.57	1271.24	5.73	1272.08	NA	NA
HW-9	9810.5264	10313.3873	1280.78	Shallow WBZ	9.26	1271.52	9.02	1271.76	NA	NA
HW-10	9837.2976	9966.7406	1279.55	Shallow WBZ	8.15	1271.40	8.47	1271.08	7.96	1271.59
SP-10	9815.1646	9977.9909	1279.03	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-11	9839.7566	9977.9072	1279.23	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-12	9833.1836	9958.7423	1279.68	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-13	9819.5009	9958.5764	1279.87	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-14	9807.2232	9967.0477	1279.39	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-15	9840.6722	10209.4525	1278.65	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-16	9840.3119	10250.4484	1277.84	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-17	9845.107	10287.9591	1277.56	Shallow WBZ	NA	NA	NA	NA	NA	NA
SP-18	9855.8421	10323.265	1277.4	Shallow WBZ	NA	NA	NA	NA	NA	NA
SDO-1	N/A	N/A	N/A	Shallow WBZ	NA	NA	NA	NA	NA	NA
RW-1S	9932.8951	10135.8706	1276.06	Shallow WBZ	11.21	1264.85	10.25	1265.81	10.90	1265.16
RW-2S*	9983.3801	10151.6403	1276.59	Shallow WBZ	12.38	1264.21	9.10	1267.49	7.19	1269.4
RW-3S	9838.0594	9990.4502	1278.29	Shallow WBZ	8.56	1269.73	9.29	1269	8.26	1270.03
RW-4S	9839.8053	10221.6766	1277.34	Shallow WBZ	8.39	1268.95	8.37	1268.97	7.89	1269.45
RW-5S	9863.2271	10330.2425	1277.43	Shallow WBZ	7.83	1269.60	7.91	1269.52	7.40	1270.03
MW-7D*	9973.2593	10174.8524	1277.8	Lower Fine Sand WBZ	13.91	1263.89	12.00	1265.8	11.46	1266.34
MW-8	9959.6089	10127.6898	1277.97	Lower Fine Sand WBZ	13.48	1264.49	11.79	1266.18	11.26	1266.71
MW-11D	9942.3792	10101.1482	1277.85	Lower Fine Sand WBZ	13.04	1264.81	11.56	1266.29	11.10	1266.75
MW-14D	10049.5051	10129.1897	1280.01	Lower Fine Sand WBZ	14.78	1265.23	13.42	1266.59	13.16	1266.85
MW-15D	10045.5611	10255.205	1279.46	Lower Fine Sand WBZ	14.26	1265.20	13.11	1266.35	12.88	1266.58
MW-16D	10143.9497	10236.6005	1279.05	Lower Fine Sand WBZ	13.58	1265.47	12.59	1266.46	12.40	1266.65
MW-17	9987.6315	9995.5207	1278.7	Lower Fine Sand WBZ	NA	NA	9.75	1268.95	9.63	1269.07
MW-19D	9951.569	10355.9748	1276.21	Lower Fine Sand WBZ	10.54	1265.67	9.89	1266.32	5.19	1271.02
RW-1D	9926.5997	10121.3968	1276.64	Lower Fine Sand WBZ	11.31	1265.33	10.29	1266.35	9.81	1266.83
RW-2D	9983.0619	10167.3168	1276.46	Lower Fine Sand WBZ	36.42	1240.04	29.40	1247.06	26.63	1249.83
MW-7DD*	9970.8547	10176.2698	1277.74	Glacial Till	2.19	1275.55	2.42	1275.32	2.37	1275.37
GP-1S	9954.39*	10203.02*	1278.98	Shallow WBZ	9.02	1269.96	8.93	1270.05	11.16	1267.82
GP-2S	9914.89*	10201.04*	1278.63	Shallow WBZ	7.33	1271.30	7.53	1271.1	6.21	1272.42
GP-2D	9914.91*	10207.84*	1278.7	Lower Fine Sand WBZ	12.81	1265.89	11.48	1267.22	11.24	1267.46
GP-3S	9941.13*	10264.03*	1278.87	Shallow WBZ	8.61	1270.26	9.16	1269.71	7.70	1271.17
GP-3D	9937.38*	10264.53*	1278.77	Lower Fine Sand WBZ	13.28	1265.49	12.09	1266.68	11.80	1266.97
GP-4S	9940.86*	10154.97*	1278.06	Shallow WBZ	8.26	1269.80	8.03	1270.03	NA	NA
GP-4D	9940.85*	10151.57*	1278.08	Lower Fine Sand WBZ	14.06	1264.02	11.91	1266.17	NA	NA
GP-5S	9993.54*	10200.34*	1277.44	Shallow WBZ	Frozen		8.12	1269.32	7.88	1269.56
GP-5D	9993.55*	10290.21*	1277.37	Lower Fine Sand WBZ	Frozen		Water at Top		NA	NA
PZ-1S			1277.97	Shallow WBZ	8.11	1269.86	8.13	1269.84	NA	NA
PZ-1D			1277.75	Lower Fine Sand WBZ	11.68	1266.07	10.92	1266.83	NA	NA
PZ-2D			1277.86	Lower Fine Sand WBZ	10.94	1266.92	10.44	1267.42	NA	NA
PZ-3D			1279.02	Lower Fine Sand WBZ	12.34	1266.68	11.47	1267.55	11.06	1267.96
PZ-4D			1278.94	Lower Fine Sand WBZ	12.18	1266.76	11.42	1267.52	NA	NA
PZ-5S			1276.56	Shallow WBZ	6.81	1269.75	6.51	1270.05	9.75	1266.81
PZ-5D			1276.52	Lower Fine Sand WBZ	10.31	1266.21	9.28	1267.24	9.16	1267.36
PZ-6S			1276.77	Shallow WBZ	7.08	1269.69	8.71	1268.06	9.71	1267.06
PZ-6D			1276.57	Lower Fine Sand WBZ	10.56	1266.01	9.33	1267.24	9.43	1267.14
PZ-7D			1275.83	Lower Fine Sand WBZ	10.77	1265.06	10.08	1265.75	9.59	1266.24
PZ-8D			1278.63	Lower Fine Sand WBZ	12.03	1266.60	10.91	1267.72	10.82	1267.81
PZ-9D			1278.04	Lower Fine Sand WBZ	11.26	1266.78	10.16	1267.88	10.05	1267.99
PZ-10D			1277.58	Lower Fine Sand WBZ	11.35	1266.23	10.76	1266.82	10.03	1267.55
PZ-11D			1276.7	Lower Fine Sand WBZ	11.09	1265.61	9.88	1266.82	9.91	1266.79
TW-01			1279.1	Shallow WBZ	6.29	1272.81	5.71	1273.39	NA	NA
VP-5D			1278.2	Lower Fine Sand WBZ	12.06	1266.14	10.56	1267.64	10.29	1267.91
VP-6S			1276.62	Upper Gravel of LFSWBZ	10.41	1266.21	10.06	1266.56	7.51	1269.11
VP-6D			1276.71	Lower Fine Sand WBZ	10.89	1265.82	10.23	1266.48	9.59	1267.12
VP-7D			1278.87	Lower Fine Sand WBZ			11.42	1267.45	11.30	1267.57
VP-8D			1277.37	Lower Fine Sand WBZ			10.10	1267.27	9.87	1267.5
Comments					1548 Days of System Operation		1584 Days of System Operation		1620 Days of System Operation	

WBZ - Water Bearing Zone
* = Estimated Coordinate
MW-5 TOC elev. altered from 1280.91 ft msl to 1280.82 ft msl on May 5, 2000
* Wells resurveyed on 10/11/00 due to uplift of concrete from injection work.

B

APPENDIX B

LABORATORY CERTIFICATES OF ANALYSIS

Antech Ltd.
One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

April 15, 2002

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 Antech Ltd. by URS Corporation. The samples were received on April 1, 2002. Please reference Antech project number 02-1371 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.1010

Antech Sample Indentification	Client Sample Identification
0204-0119	RW-1S
0204-0120	RW-1D
0204-0121	RW-2S
0204-0122	RW-2D

Antech Sample Indentification	Client Sample Identification
0204-0123	RW-3S
0204-0124	RW-4S
0204-0125	RW-5S
0204-0126	Trip Blank

General Comments: Ice was present upon receipt.

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

Sincerely,

Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0119**
Client Sample ID: RW-1S
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

0892

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B[1]	5.4	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B[1]	760	50	ug/l	JLP	04/11/2002	041504-04	<5.0
trans-1,2-Dichloroethene	8260B[1]	12	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B[1]	2300	250	ug/l	JLP	04/12/2002	041504-07	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B[1]	87	2.0	ug/l	JLP	04/10/2002	041204-16	<2.0

(Continued)

Lab Sample ID: **0204-0119**
Client Sample ID: RW-1S

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<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.

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0120**
Client Sample ID: RW-1D
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

3634

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B(1)	9.7	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B(1)	25	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B(1)	3000	250	ug/l	JLP	04/11/2002	041504-04	<5.0
trans-1,2-Dichloroethene	8260B(1)	41	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B(1)	62	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B(1)	52	2.0	ug/l	JLP	04/10/2002	041204-16	<2.0

(Continued)

Lab Sample ID: **0204-0120**
Client Sample ID: RW-1D

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<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.

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0121**
Client Sample ID: RW-2S
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

3206

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B(1)	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B(1)	99	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B(1)	7.7	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B(1)	5.6	2.0	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: **0204-0121**
Client Sample ID: RW-2S

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<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.

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0122**
Client Sample ID: RW-2D
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

0009

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B[1]	9.9	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B[1]	33	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B[1]	12000	500	ug/l	JLP	04/11/2002	041504-04	<5.0
trans-1,2-Dichloroethene	8260B[1]	29	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B[1]	150	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B[1]	1700	10	ug/l	JLP	04/11/2002	041504-04	<2.0

(Continued)

Lab Sample ID: **0204-0122**
Client Sample ID: RW-2D

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0123**
Client Sample ID: RW-3S
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

0010

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B[1]	1.3	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B[1]	6.3	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B[1]	11	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B[1]	17	2.0	ug/l	JLP	04/10/2002	041204-16	<2.0

(Continued)

Lab Sample ID: 0204-0123
Client Sample ID: RW-3S

Volatiles (Cont.)

m,p-Xylene	8260B[1]	43	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
o-Xylene	8260B[1]	12	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0124**
Client Sample ID: RW-4S
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

0012

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	29	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B(1)	18	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B(1)	170	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B(1)	9.3	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B(1)	20	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B(1)	2500	250	ug/l	JLP	04/11/2002	041504-04	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B(1)	<2.0	2.0	ug/l	JLP	04/10/2002	041204-16	<2.0

(Continued)

Lab Sample ID: **0204-0124**
Client Sample ID: RW-4S

Volatiles (Cont.)

m,p-Xylene	8260B[1]	66000	2500	ug/l	JLP	04/12/2002	041504-07	<5.0
o-Xylene	8260B[1]	22000	2500	ug/l	JLP	04/12/2002	041504-07	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0125**
Client Sample ID: RW-5S
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

0014

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	35	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/10/2002	041204-16	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Cumene	8260B[1]	15	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Ethylbenzene	8260B[1]	83	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Toluene	8260B[1]	6.9	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JLP	04/10/2002	041204-16	<2.0

(Continued)

Lab Sample ID: **0204-0125**
Client Sample ID: RW-5S

Volatiles (Cont.)

m,p-Xylene	8260B[1]	260	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
o-Xylene	8260B[1]	14	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0

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

Sample Comments: Results reported on an as received basis.

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Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-1371**
Lab Sample ID: **0204-0126**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/29/2002
Date Received: 04/01/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: **0204-0126**
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<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.

0017

Sample Comments: Results reported on an as received basis.

Antech Ltd. Chain of Custody Record

Ship To: Antech Ltd.
One Triangle Lane
Export, PA 15632
(724) 733-1161
FAX (724) 327-7793

For Laboratory Use Only
Laboratory Project No. 02 137

Project Name: Essex-Hope Project No.: 801419.2030 Sampler: John Ross (Printed Name) John S. Ross (Signature)

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
John S. Ross John S. Ross	3-27-02	1745	Fed Ex.		
FedEx				4-1-02	0900

The signing of this chain of custody by Antech indicates only that samples for this project were received at our laboratory. The Antech project manager assigned to your account will verify the sample identification (s), analytical program (s), and any anomaly (ies) with the sample shipment. Notification will be sent to you in the form of a client receipt.

Antech Quote ID No.:
Antech Contact Name:
Client Purchase Order No.:
Method of Shipment: Fed. Ex.
Shipment ID: 8278 8330 4846 0215

Sample ID Number	Sample Description: Date	Time	Description	Grab	Composite	Chemistry (500 mL 1000 mL)	Nutrient (250 mL 500 mL)	Total Metals (250 mL 500 mL)	Dissolved Metals (250 mL 500 mL)	Cyanide (1000 mL)	Phenolics (1000 mL)	TOC (125 mL)	TOX (250 mL)	Sulfide (500 mL)	Radiological (1000 mL)	Oil & Grease (1000 mL)	TPHC (1000 mL)	VOA (40 mL)	Organics (1000 mL 2.5 liter)	Bacteriological (125 mL)	Watermouth Jar: Soil (250 mL 500 mL 1000 mL)	VOA Septa Jar: Soil (125 mL)	Other (Please Specify)	No. of Containers	For Lab Use Only Laboratory ID
	3-27-02	1545	RW-1S	X														2							01 01
		1555	RW-1D	X														2							0120
		1605	RW-2S	X														2							0121
		1615	RW-2D	X														2							0122
		1625	RW-3S	X														2							0123
		1635	RW-4S	X														2							0124
		1645	RW-5S	X														2							0125
			Trip Blank															3							0126
			Temp Blank															1							

Please Check when Monitoring Samples are Collected.
☐ Residual Chlorine Present
☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected
☐ Free of Bubbles
☐ Bubbles Present
(Specify in Special Instructions/Comments)

Special Instructions/Comments: Quarterly Samples

Sample Return/Disposal:
☐ Return to Client
☒ Disposal by Antech

Results To: Client Name: Keith Dodrill
Company: URS Corp
Address: 4955 Steubenville Pike
Pittsburg, PA. 15205
Phone No. 412-788-2717
Fax No: 412-788-1316

Invoice To: Client Name:
Company:
Address:

For Laboratory Use Only
Sample Condition Upon Receipt: Singular Iced 3-28-02
Temp Not Taken
Was Temperature Vial Sent With Cooler? YES NO Cooler Temperature: Was Ice Present? YES NO

WHITE: Original COC File YELLOW: Return with Report PINK: Project File GOLD: Client Receipt

Antech Ltd.
One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

February 12, 2002

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 Antech Ltd. by URS Corporation. The samples were received on January 29, 2002. Please reference Antech project number 02-0417 when inquiring about this report.

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Antech Sample Indentification	Client Sample Identification
0201-1610	Pre-Carb
0201-1611	Post Carb Comp
0201-1612	Primary Effluent
0201-1613	Trip Blank

General Comments: Cooler temperature 5.8 degrees C upon receipt. Ice was present.

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

Sincerely,

Carin A. Ferris

Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Lab Project ID: **02-0417**
Lab Sample ID: **0201-1610**
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B[1]	7.2	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B[1]	6.5	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B[1]	18	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	5700	250	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	34	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B[1]	400	25	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B[1]	170	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B[1]	320	25	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B[1]	720	5.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: **0201-1610**
Client Sample ID: Pre-Carb

Volatiles (Cont.)

m,p-Xylene	8260B[1]	2800	250	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B[1]	940	250	ug/l	JEC	02/04/2002	020504-01	<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.

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

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Lab Project ID: **02-0417**
Lab Sample ID: **0201-1611**
Client Sample ID: Post Carb Comp
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: **0201-1611**
Client Sample ID: Post Carb Comp

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<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.

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

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Lab Project ID: 02-0417
Lab Sample ID: 0201-1612
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	9.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B[1]	700	5.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: **0201-1612**
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<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.

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

Client Site: Essex, Jamestown, NY
Client Ref.: 801419.2030

Lab Project ID: **02-0417**
Lab Sample ID: **0201-1613**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 01/27/2002
Date Received: 01/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JEC	02/04/2002	020504-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JEC	02/04/2002	020504-01	<2.0

(Continued)

Lab Sample ID: **0201-1613**
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JEC	02/04/2002	020504-01	<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.

RADIAN CORPORATION

020417

Chain of Custody Record

Page 1 of 1

PROJECT: 801419.2030
SITE: Essex-Hope
COLLECTED BY (Signature): Jah S. Ross

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	ANALYSES: VOA 8260	REMARKS	SAM ID NO. (for lab use only)
Pre-Carb	AQ	1-27-02 0815	3			01610
Post-Carb		1-2702 0830	3			1611
Post-Carb		1-27-02 0900	3			
Post-Carb		1-27-02 0930	3			
Post-Carb		1-27-02 1000	3			
Primary Effluent		1-27-02 1015	3			1612
Trip Blank			3			1613
Temp Blank			1			

REMARKS: Combine 4 Post-Carb Samples into 1 for Analysis

RELINQUISHED BY: Jah S. Ross — DATE: 1-28-02 — TIME: 1710

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Fed Ex	1-28-02	1710				Fedx			Fedx		

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
	1-29-02	0530							

REMARKS: 827882 5364

5.4°C

4-88-30337

Antech Ltd.
One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

March 18, 2002

5001

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 Antech Ltd. by URS Corporation. The samples were received on March 4, 2002. Please reference Antech project number 02-0895 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Indentification	Client Sample Identification
0203-0216	Pre Carb
0203-0217	Primary Effluent
0203-0218	Post Carb Composite
0203-0219	Trip Blank

General Comments: Cooler temperature 4.1 ° C upon receipt. Ice was present.

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

Sincerely,

Valerie Tinko
for Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: **02-0895**
Lab Sample ID: **0203-0216**
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	62	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B[1]	6.5	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B[1]	9.6	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B[1]	11	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	4700	250	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,2-Dichloroethene	8260B[1]	41	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B[1]	460	25	ug/l	REC	03/13/2002	031404-04	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B[1]	250	25	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B[1]	240	25	ug/l	REC	03/13/2002	031404-04	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B[1]	640	5.0	ug/l	REC	03/13/2002	031404-04	<2.0

(Continued)

Lab Sample ID: **0203-0216**
Client Sample ID: Pre Carb

Volatiles (Cont.)

m,p-Xylene	8260B[1]	2300	250	ug/l	REC	03/13/2002	031404-04	<5.0
o-Xylene	8260B[1]	910	25	ug/l	REC	03/13/2002	031404-04	<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.

0003

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: **02-0895**
Lab Sample ID: **0203-0217**
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	3700	50	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B(1)	<1.0	1.0	ug/l	REC	03/13/2002	031404-04	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
2-Butanone	8260B(1)	13	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
cis-1,2-Dichloroethene	8260B(1)	27	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
4-Methyl-2-pentanone	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
Vinyl chloride	8260B(1)	1300	50	ug/l	REC	03/13/2002	031404-04	<2.0

(Continued)

Lab Sample ID: **0203-0217**
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/13/2002	031404-04	<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.

0005

Sample Comments: Results reported on an as received basis.

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

Lab Project ID: **02-0895**
Lab Sample ID: **0203-0218**
Client Sample ID: Post Carb Composite
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	1500	10	ug/l	REC	03/13/2002	031404-04	<5.0
Benzene	8260B(1)	<1.0	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B(1)	8.2	2.0	ug/l	REC	03/12/2002	031304-01	<2.0

(Continued)

Lab Sample ID: **0203-0218**
Client Sample ID: Post Carb Composite

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<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.

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

Lab Project ID: **02-0895**
Lab Sample ID: **0203-0219**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 02/28/2002
Date Received: 03/04/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Benzene	8260B(1)	<1.0	1.0	ug/l	REC	03/12/2002	031304-01	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Butanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
2-Hexanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
4-Methyl-2-pentanone	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2,2-Tetrachloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Tetrachloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Toluene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,1-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
1,1,2-Trichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Trichlorofluoromethane	8260B(1)	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
Vinyl chloride	8260B(1)	<2.0	2.0	ug/l	REC	03/12/2002	031304-01	<2.0

(Continued)

Lab Sample ID: **0203-0219**
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	03/12/2002	031304-01	<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.

Antech Ltd. Chain of Custody Record

Ship To: Antech Ltd.
One Triangle Lane
Export, PA 15632
(724) 733-1161
FAX (724) 327-7793

For Laboratory Use Only
Laboratory Project No.: 020895

Project Name: Essex - Hope Project No.: 801419.2030 Sampler: John Ross (Printed Name) John S. Ross (Signature)

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
John S. Ross John S. Ross	3-1-02	1645	Fed Ex		
Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
				3/4/02	0900

The signing of this chain of custody by Antech indicates only that samples for this project were received at our laboratory. The Antech project manager assigned to your account will verify the sample identification (s), analytical program (s), and any anomaly (ies) with the sample shipment. Notification will be sent to you in the form of a client receipt.

Antech Quote ID No.:
Antech Contact Name: Debbi Grimaldi
Client Purchase Order No.:
Method of Shipment: Fed. Express
Shipment ID: 8213-6026-4695-0215

Please Check when Monitoring Samples are Collected.
☐ Residual Chlorine Present
☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected:
☐ Free of Bubbles
☐ Bubbles Present
(Specify in Special Instructions/Comments)

Sample ID Number	Sample Description Date	Time	Description	Grab	Composite	Circle Bottle Size: Chemistry (500 ml, 1000 ml)	Nutrient (250 ml, 500 ml)	Total Metals (250 ml, 500 ml)	Dissolved Metals (250 ml, 500 ml)	Cyanide (1000 ml)	Phenolics (1000 ml)	TOC (125 ml)	TOX (250 ml)	Sulfide (500 ml)	Radiological (1000 ml)	Oil & Grease (1000 ml)	TPHC (1000 ml)	VOA (40 ml)	Organics (1000 ml, 2.5 liter)	Bacteriological (125 ml)	Wipe/mouth Jar, Soil (250 ml, 500 ml, 1000 ml)	VOA Septa Jar, Soil (125 ml)	Other (Please Specify)	No. of Containers	For Lab Use Only Laboratory ID
	2-28-02	1600	Pre-Carb	X														3						3	02-16
	2-28-02	1610	Primary Effluent																					3	02-17
	2-28-02	1615	Post-Carb																					3	02-18
	2-28-02	1645	Post-Carb																					3	
	2-28-02	1715	Post-Carb																					3	
	2-28-02	1745	Post Carb																					3	
			Trip Blank																					3	02-19
			Temp Blank															1						1	

Special Instructions/Comments: Combine 4 Post-Carb samples into One for Analysis

Sample Return/Disposal:
☐ Return to Client
☒ Disposal by Antech

Results To: Client Name: Keith Dodrill
Company: IRS Corp
Address: Suite 250 Twin Towers 4955 Steubenville PK Pittsburgh 15205
Phone No 412-788-2717
Fax No:

Invoice To: Client Name:
Company:
Address:

For Laboratory Use Only
Sample Condition Upon Receipt:
Was Temperature Taken With Cooler? YES NO Cooler Temperature 4°C Was Ice Present? YES NO
WHITE: Original COC File YELLOW: Return with Report PINK: Project File GOLD: Client Receipt

Antech Ltd.
One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

April 3, 2002

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 Antech Ltd. by URS Corporation. The samples were received on March 29, 2002. Please reference Antech project number 02-1352 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Indentification	Client Sample Identification
0203-1831	Post Carb

General Comments: Cooler temperature 7.5 ° C upon receipt. Ice was present.

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

Sincerely,

Valerie Timko

for Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-1352
Lab Sample ID: 0203-1831
Client Sample ID: Post Carb
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	1900	10	ug/l	REC	04/02/2002	040304-04	16
Benzene	8260B[1]	<1.0	1.0	ug/l	REC	04/02/2002	040304-10	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
Vinyl chloride	8260B[1]	240	10	ug/l	REC	04/02/2002	040304-10	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	04/02/2002	040304-04	<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. VOA: Acetone is a common laboratory contaminant. Results for this analyte should be considered estimates unless the amount found in the sample is 3 to 5

times higher than that found in the method blank. According to method 8260 and the laboratory SOP, acetone is allowed to be up to 5 times above the CRQL (or reporting limit) in the method blank. Typical lab reporting limit for acetone is 10, therefore, the method blank may contain up to 50ppb and still be deemed acceptable.

Antech Ltd. Chain of Custody Record

Ship To Antech Ltd.
One Triangle Lane
Export, PA 15632
(724) 733-1161
FAX (724) 327-7793

For Laboratory Use Only
Laboratory Project No. 02-1352

Project Name: Essex-Hope Project No.: 80141912030 Sampler: John S. Ross (Printed Name) John S. Ross (Signature)

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
John S. Ross	3-28-02	1815	Fed Ex.		
Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
			Penelope Morris Penelope Morris	3/29/02	10:00

The signing of this chain of custody by Antech indicates only that samples for this project were received at our laboratory. The Antech project manager assigned to your account will verify the sample identification (s), analytical program (s), and any anomaly (ies) with the sample shipment. Notification will be sent to you in the form of a client receipt.

Antech Quote ID No.:
Antech Contact Name: Debbi Grimaldi
Client Purchase Order No.:
Method of Shipment: Fed. Ex
Shipment ID: 8213 6026 4776 0215

Sample ID Number	Sample Description: Date	Time	Description	Grab	Composite
	3-28-02	1600	Pre-Carb		
		1600	Primary Effluent		
		1600	Post-Carb		
		1630	Post-Carb		
		1700	Post-Carb		
		1730	Post-Carb		
			Trip Blank		
			Temp. Blank		

Circle Bottle Size: Chemistry (500 mL, 1000 mL); Nutrient (250 mL, 500 mL); Total Metals (250 mL, 500 mL); Dissolved Metals (250 mL, 500 mL); Cyanide (1000 mL); Phenolics (1000 mL); TOC (125 mL); TOX (250 mL); Sulfide (500 mL); Radiological (1000 mL); Oil & Grease (1000 mL); TPHC (1000 mL); VOA (40 mL) 8260; Organics (1000 mL, 2.5 liter); Bacteriological (125 mL); Wipe/Misc. Jar, Soil (250 mL, 500 mL, 1000 mL); VOA Septa Jar, Soil (125 mL)

Other (Please Specify)

Please Check when Monitoring Samples are Collected:
- ☐ Residual Chlorine Present
- ☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected:
- ☐ Free of Bubbles
- ☐ Bubbles Present

(Specify in Special Instructions/Comments)

No. of Containers	For Lab Use Only Laboratory ID
	03-1831

Special Instructions/Comments: "Rush. Turnaround" on Post-Carb Samples!! others Regular Turnaround Combine 4 Post-Carb Samples into One for Analysis.

Sample Return/Disposal:
- ☐ Return to Client
- ☒ Disposal by Antech

Results To: Client Name: Keith Dodrill
Company: URS Corp
Address: 4955 Steubenville Pike
Pittsburgh PA 15205
Phone No: 412-788-2717
Fax No: 412-788-1316

Invoice To: Client Name:
Company:
Address:

For Laboratory Use Only:
Sample Condition Upon Receipt:
Was Temperature Vial Sent With Cooler? YES ✓ NO ____ Cooler Temperature: 1.5 Was Ice Present? YES ✓ NO ____

WHITE - Original COC File YELLOW - Return with Report PINK - Project File GOLD - Client Receipt

Antech Ltd.

One Triangle Lane • Export, Pennsylvania 15632 • Phone: (724) 733-1161 • Fax: (724) 327-7793

Facsimile Cover Sheet

Sender: Please complete all blanks. Facsimile Operator: VLT

Date: 4-12-02 Project No.: 02-1353

URGENT [XXX] **Routine** [ ]

Transmit to: Mr. Keith Dodrill

Company:

Telephone No.: ( ) Facsimile No.: (412) 788 1316

No. of Pages: (include cover) 8

From: Valerie Timko

Comments:

Please report problems with reception by calling (724) 733-1161, extension 241 immediately.

Antech Ltd.
One Triangle Lane
Export, PA 15632
Phone: (724)733-1161
Fax: (724)327-7793

April 12, 2002

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 Antech Ltd. by URS Corporation. The samples were received on March 29, 2002. Please reference Antech project number 02-1353 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Antech Sample Identification	Client Sample Identification
0203-1832	Pre Carb
0203-1833	Primary Effluent
0203-1834	Trip Blank

General Comments: VOA: Acetone is a common laboratory contaminant. Results for this analyte should be considered estimates unless the amount found in the sample is 3 to 5 times higher than that found in the method blank. Cooler temperature 7.5 ° C upon receipt. Ice was present.

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

Sincerely,

Valerie Timko

for Carin A. Ferris
Project Coordinator

CAM: vlt

Enclosures

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1832
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	14	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B[1]	3.8	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B[1]	7.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B[1]	9.2	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	3500	250	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	9.3	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B[1]	510	50	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B[1]	240	50	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B[1]	230	50	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B[1]	520	10	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: 0203-1832
Client Sample ID: Pre Carb

Volatiles (Cont.)

m,p-Xylene	8260B[1]	3100	50	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B[1]	1100	50	ug/l	JLP	04/09/2002	041204-01	<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.

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1833
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	270	5.0	ug/l	JLP	04/10/2002	041204-16	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B[1]	29	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	110	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B[1]	1100	50	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: 0203-1833
Client Sample ID: Primary Effluent

Volatiles (Cont.)

m,p-Xylene	8260B[1]	7.9	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<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.

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1834
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/28/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

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

Lab Project ID: 02-1353
Lab Sample ID: 0203-1834
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 03/28/2002
Date Received: 03/29/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Benzene	8260B[1]	<1.0	1.0	ug/l	JLP	04/09/2002	041204-01	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Butanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
2-Hexanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
4-Methyl-2-pentanone	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Styrene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	JLP	04/09/2002	041204-01	<2.0

(Continued)

Lab Sample ID: **0203-1834**
Client Sample ID: Trip Blank

Volatiles (Cont.)

m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	JLP	04/09/2002	041204-01	<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.