



January 27, 2004

Mr. Randall Peterson, P.E.
Engineering & Operations Manager
Division of Wastewater/Solid Waste
Jamestown Board of Public Utilities
P.O. Box 700
Jamestown, NY 14702-0700

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**Subject: Essex/Hope Site
Semi-Annual Self Monitoring Report
July through December 2004
BPU Permit No. 26
URS Project No. 41567320**

Dear Mr. Peterson:

This submittal represents the July through December 2004 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

Specific requirements included in this report as shown on Table 1 are as follows:

- Concentrations of Total Toxic Organics (TTOs) in discharge to POTW as measured monthly. Note: The Baseline Monitoring conducted for the discharge identified volatile organic compounds (VOCs) as approximately 98% of the influent TTO component. Non-volatile components historically were not a major component of chemical usage at the site. Based on these conditions, the permit requires sampling of VOCs to measure TTO concentration.
- pH of discharge to POTW as measured monthly.
- Flow rate of discharge to POTW as measured monthly.
- Estimated daily average and maximum flow rates.

This Semi-Annual Report contains system influent and effluent data for July through December 2004. There were no discharge noncompliance events that occurred during this reporting period.

The treatment plant was shut down between July 15, 2004 and July 25, 2004 for recovery well pumps and system maintenance, as well as an emergency carbon treatment vessel change-out due to carbon blockage. No discharge to the POTW occurred during this work.

URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220
Tel: 412-788-2717
Fax: 412-788-1316
www.urscorp.com

BPU Report July-Dec 2004_KD 1-27-05

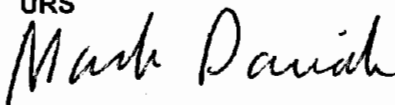
Monthly system effluent sampling and analysis for VOCs by US EPA Method 8260B was completed with the exception for the July and August events. No sampling was conducted in July due to the carbon change-out that occurred in the later half of the month – sampling from the newly installed carbon units was deemed to be non-representative of the discharge that occurred prior to July 15, 2004. The results obtained at the end of June 2004 (reported in the January through June 2004 Report) should be considered as representative of the discharge between July 1 and 15, 2004. URS completed monthly sampling of the system influent and effluent on August 29, 2004. Of these samples, the laboratory reported the effluent samples were broken in transit and only the influent samples could be analyzed. URS re-sampled the system influent and effluent on September 9, 2004. Due to a routing mistake made by the laboratory, these samples were sent to a radiological laboratory and beyond the sample holding times when discovered.

Discharge flow rates for the reporting period ranged from 100,491 to 155,550 gallons per month. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

We trust that this submittal satisfies our reporting obligation pursuant to 40 CFR 403.12. If you have any questions or require additional information, please contact me at (412) 249-1266.

Sincerely,

URS



Mark Dowiak
Project Manager

Attachment

cc: Tim King (Dow)
Maurice Moore (NYSDEC)
Keith Dodrill (URS)
John Ross (URS)

Table 1

**Discharge Monitoring Data
Essex/Hope Site
July - December 2004**

Reporting Requirements for Pre-Treated Discharge (System Effluent to POTW)	July	August	September	October	November	December
Total VOCs (µg/L)	NS	NA	24.7	33	97.8	270
Detected Compounds	NS	NA	cis-1,2- Dichloroethene Vinyl Chloride	cis-1,2- Dichloroethene Vinyl Chloride	cis-1,2- Dichloroethene Vinyl Chloride	cis-1,2- Dichloroethene
pH (Standard Units)	6.8	6.90	7.00	7.01	7.05	7.26
		6.98	7.00	7.20	7.11	7.31
		7.07	7.00	7.21	7.10	7.30
		7.11	7.00	7.18	7.13	7.36
Monthly Total Flow (gallons)	111,920	133,099	155,550	100,491	128,534	133,300
Average Daily Flow (gallons)	4,866	4,294	5,018	3,350	4,284	4,300
Maximum Daily Flow (gallons)	5,839	5,152	6,021	4,020	5,141	5,160

Note:

July average flow is calculated based on 23 days of system operation during the period.

Maximum Daily Flow is estimated to be 20% greater than Average Daily Flow.

VOCs sample is a laboratory prepared composite of 4 grab samples collected from the pre-treatment system discharge to the POTW at 30 minute intervals.

pH measurements recorded are concurrent with the time of each grab sample.

New carbon vessel added to pre-treatment system in June 2004

NS = not sampled

NA = not analyzed

NR = value not recorded

LABORATORY CERTIFICATES OF ANALYSIS

September 17, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on August 31, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-4123 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567300

Pace Sample Identification	Client Sample Identification
0408-2559	Pre Carb
0408-2562	Trip Blank

General Comments: Cooler temperature 2 ° C upon receipt. Ice was present. The vials for samples 0408-2560 (Primary Effluent) and 0408-2561 (Post Carb) were received frozen. The vials for these samples were received broken.

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

Sincerely,



for Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 6

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Lab Project ID: 04-4123
Lab Sample ID: 0408-2559
Client Sample ID: Pre Carb
Sample Matrix: Aqueous

Date Sampled: 08/29/2004
Date Received: 08/31/2004

Client Site: Essex-Hope
Client Ref.: 41567300

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Benzene	8260B(1)	10	1.0	ug/l	MAK	09/08/2004	0033166-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethene	8260B(1)	25	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	4700	50	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	49	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0408-2559

Client Sample ID: Pre Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichloroethene	8260B ⁽¹⁾	750	50	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	800	100	ug/l	MAK	09/08/2004	0033166-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive
Pittsburgh, PA 15220

Lab Project ID: 04-4123
Lab Sample ID: 0408-2562
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 08/29/2004
Date Received: 08/31/2004

Client Site: Essex-Hope
Client Ref.: 41567300

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	09/08/2004	0033166-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	09/08/2004	0033166-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0408-2562

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	09/08/2004	0033166-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	09/08/2004	0033166-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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"Penny Westrick"
<Penny.Westrick@pac
elabs.com>

To: <keith_dodrill@urscorp.com>
cc:
Subject: Essex Hope Samples

09/02/2004 05:42 AM

** High Priority **

Keith,

WE received your samples from Essex Hope on Tuesday, and several of the sample vials were broken and frozen.

The vials for the Primary Effluent, and the 4 Post Carb samples were all frozen, and popped the bottoms out of the vials.

I left a voicemail in your general mailbox at URS on Tuesday, and left a message with Fred Coll on Wed. You might want to have someone check out your voicemail system - the directory is not working - every name I put in said invalid entry.

Please let me know what you need.

Thanks
Penny

Penny Westrick
Client Services Manager
Pace Analytical Services - Pittsburgh
5203 Triangle Lane
Export, PA 15632
724-733-1161 ext. 105
Penny.Westrick@pacelabs.com
visit us online at www.pacelabs.com

October 14, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on September 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-4641 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.01

Pace Sample Identification	Client Sample Identification
0409-2720	Pre-Carb
0409-2721	Primary Effluent
0409-2722	Post-Carb
0409-2723	Trip Blank

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.01

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

Lab Project ID: 04-4641
Lab Sample ID: 0409-2720
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 09/29/2004
Date Received: 09/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B(1)	8.1	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B(1)	22	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	4400	50	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	33	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0409-2720

Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	640	50	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	880	100	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2721
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 09/29/2004
Date Received: 09/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	380	10	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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Lab Sample ID: 0409-2721
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	8.6	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	930	20	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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

Sample Comments: Results reported on an as received basis. VOA: One surrogate was outside QC limits in the neat analysis on this sample. All surrogate recoveries were acceptable in the dilution, therefore matrix interference is suspected.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2722
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 09/29/2004

Date Received: 09/30/2004

Client Site: Essex-Hope

Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	15	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0409-2722

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	9.7	2.0	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0409-2722 was composited from 4 samples prior to analysis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-4641
Lab Sample ID: 0409-2723
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 09/29/2004
Date Received: 09/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.01

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	10/07/2004	0034000-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/07/2004	0034000-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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Lab Sample ID: 0409-2723

Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	10/07/2004	0034000-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	10/07/2004	0034000-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Section B
Required Client Information:

Report To: Keith Dodrill
Copy To: _____
Invoice To: _____
P.O. _____
Project Name: Essex Hope
Project Number: 41367320.01

Page: 1 of 1

Section A

Company: URS Corp
Address: Foster Plaza 4
501 Holiday Drive Suite 200
Pittsburgh, PA 15220
Phone: 412-503-4669 Fax: _____

To Be Completed by Pace Analytical and Client

Quote Reference: 822901
Project Manager: _____
Project #: 64 4641
Profile #: _____
Requested Analysis: _____

Section D
Required Client Information:

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

Sample IDs MUST BE UNIQUE

Valid Matrix Codes

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

DATE COLLECTED
mm / dd / yy

TIME COLLECTED
hh: mm a/p

Preservatives

Unpreserved	☒
H ₂ SO ₄	☒
HNO ₃	☒
HCl	☒
NaOH	☒
Na ₂ S ₂ O ₃	☒
Methanol	☒
Other	☒

ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
PR E - CARB	PR I - MAR 4 - E F F L U E N T	PO ST - CARB	PO ST - CARB	PO ST - CARB	PO ST - CARB	TR I P - BL AN K						
DATE COLLECTED	9-29-04	1430	1430	1430	1500	1600	1630					
TIME COLLECTED	1430	1430	1430	1430	1500	1600	1630					
# Containers	3											
MATRIX CODE	WT											
REMARKS / Lab ID	09 2720	27 21	27 22	27 23	27 24	27 25	27 26					

SITE LOCATION	REGULATORY AGENCY	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
☒ NC ☐ SC ☐ GA ☐ Other	☐ NPDES ☐ GROUND WATER ☐ RCRA ☐ DRINKING WATER ☐ Other	John Ross - URS	9-29-04	9:30	FED-EX	9-29-04	17:00
		FED EX	9-30	9:30	John Ross	9-30	9:30

SAMPLE NOTES

Combine 4 Post-Carb Samples into 1 for Analysis

Temp in °C: 6

Received on Ice: Y/N

Sealed Cooler: Y/N

Samples Intact: Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Ross

SIGNATURE of SAMPLER: [Signature]

DATE Signed: (MM / DD / YY) 9-29-04

November 10, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 2, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-5407 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320

Pace Sample Identification	Client Sample Identification
0411-0631	Pre-Carb
0411-0632	Primary Effluent
0411-0633	Post-Carb
0411-0634	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5407
Lab Sample ID: 0411-0631
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Client Site: Essex-Hope
Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	11	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	25	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	5300	50	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	36	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-0631
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	960	50	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	720	100	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320

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

Lab Project ID: 04-5407
Lab Sample ID: 0411-0632
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	960	10	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-0632
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	51	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	770	20	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5407
Lab Sample ID: 0411-0633
Client Sample ID: Post-Carb #
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Client Site: Essex-Hope
Client Ref.: 41567320

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	13	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-0633

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	20	2.0	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0411-0633 was composited from four vials prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320

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

Lab Project ID: 04-5407
Lab Sample ID: 0411-0634
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 10/31/2004
Date Received: 11/02/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	11/05/2004	0034772-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	11/05/2004	0034772-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

(Continued)

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Lab Sample ID: 0411-0634
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	11/05/2004	0034772-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	11/05/2004	0034772-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®
www.paceanalytical.com

870960

Section B Required Client Information:

Report To:	Keith Dodrill
Copy To:	
Invoice To:	
P.O.:	
Project Name:	Essex Hope
Project Number:	41567320
Address:	501 Holiday Drive Suite 300 Pittsburgh, PA 15220
Phone:	412-503-4669
Fax:	

Section A Required Client Information:

Company:	URS Corp
Address:	Posters Plaza 4
Project #:	04 5407
Profile #:	

Page: 1 of 1

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

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

Section D Required Client Information:

Valid Matrix Codes	CODE
DRINKING WATER	DW
GROUNDWATER	GW
SURFACE WATER	SW
WASTE WATER	WW
PRODUCT	P
SOIL	SL
WIRE	WP
AIR	AR
OTHER	OT

SAMPLE ID

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

Sample IDs MUST BE UNIQUE

ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE	PRE
MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY	RY
-E	-E	-E	-E	-E	-E	-E	-E	-E	-E	-E	-E	-E
FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
LI	LI	LI	LI	LI	LI	LI	LI	LI	LI	LI	LI	LI
EN	EN	EN	EN	EN	EN	EN	EN	EN	EN	EN	EN	EN
T	T	T	T	T	T	T	T	T	T	T	T	T
BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN
K	K	K	K	K	K	K	K	K	K	K	K	K

SAMPLE TEMP	AT COLLECTION	PRESERVATIVES	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Remarks / Lab ID
START	DATE	TIME	END	DATE	TIME					
10-31-04	0830									3 11 0631
10-31-04	0830									32 11 0631
10-31-04	0830									32 11 0631
0900										32 11 0631
0930										32 11 0631
1000										32 11 0631

REGULATORY AGENCY

☐ NC	☐ SC	☐ GA	☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER
☐ Other	☐ RCRA	☐ UST	☐ Other	☐ Other	☐ Other

SAMPLE NOTES

Temp in °C	5
Received on Ice	YN
Sealed Cooler	YN
Samples Intact	YN

Combine 4 Post Carb Samples into 1 for Analysis

SAMPLER NAME AND SIGNATURE

PRINT Name of Sampler: John Ross
SIGNATURE of Sampler: John D. Ross
DATE Signed: 10-31-04

SEE REVERSE SIDE FOR INSTRUCTIONS.

December 8, 2004

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-5906 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.04

Pace Sample Identification	Client Sample Identification
0411-2897	Pre-Carb
0411-2898	Primary Effluent
0411-2899	Post-Carb
0411-2900	Trip Blank

General Comments: Cooler temperature 5 ° C upon receipt. Ice was present.

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

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REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5906
Lab Sample ID: 0411-2897
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	5.2	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	2600	50	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	12	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-2897
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	510	50	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	350	2.0	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5906
Lab Sample ID: 0411-2898
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	550	10	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

(Continued)

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Lab Sample ID: 0411-2898
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	11	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	590	20	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-5906
Lab Sample ID: 0411-2899
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.04

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035475-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035475-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0411-2899
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	91	2.0	ug/l	MAK	12/03/2004	0035475-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035475-1	<5.0

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

Sample Comments: Results reported on an as received basis. Sample 0411-2899 was composited from 4 samples prior to analysis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.04

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

Lab Project ID: 04-5906
Lab Sample ID: 0411-2900
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 11/29/2004
Date Received: 11/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	12/03/2004	0035467-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	12/03/2004	0035467-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

(Continued)

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Lab Sample ID: 0411-2900
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	12/03/2004	0035467-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	12/03/2004	0035467-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

860581

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www.pacelabs.com

Section B
Required Client Information:

Report To: Keith Dodrill
Copy To: [blank]
Invoice To: [blank]
Project Name: Essex-Hope
Project Number: 41507320.04

Section C
To Be Completed by Pace Analytical and Client

Quote Reference: [blank]
Project Manager: [blank]
Project #: 075906
Profile #: [blank]
Requested Analysis: [blank]

ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										AT COLLECTION										
Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
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Matrix Code										Methanol											
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ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
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Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
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Matrix Code										H2SO4											
Sample Type										HNO3											
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ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
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Grab C=COMP										Na2S2O3											Methanol
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Matrix Code										H2SO4											
Sample Type										HNO3											
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Matrix Code										H2SO4											
Sample Type										HNO3											
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Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE										AT COLLECTION										
Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
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Valid Matrix Codes										Unpreserved										Other	
Matrix Code										H2SO4											HCl
Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

ITEM #	Section D Required Client Information:										Section E Preservatives										Remarks / Lab ID
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Valid Matrix Codes										Unpreserved										Other	
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Sample Type										HNO3										NaOH	
Grab C=COMP										Na2S2O3											Methanol
Matrix Code										Other											
Sample Type										Unpreserved											
Matrix Code										H2SO4											
Sample Type										HNO3											
Grab C=COMP										HCl											
Matrix Code										NaOH											
Sample Type										Na2S2O3											
Matrix Code										Methanol											
Sample Type										Other											

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

SITE LOCATION		REGULATORY AGENCY		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
☐ NC	☐ SC	☐ GA	☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER										
☐ Other			☐ UST	☐ RCRA	☐ Other										

Temp in °C: 5
Received on Ice: Y/N
Sealed Cooler: Y/N
Samples Intact: Y/N

Combine 4 Post-Carb Samples into ONE for Analysis

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: [Signature]
DATE Signed: (MM/DD/YY) 11-29-04

January 11, 2005

Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on December 30, 2004. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Please reference Pace project number 04-6464 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 41567320.03

Pace Sample Identification	Client Sample Identification
0412-3302	Pre-Carb
0412-3303	Primary Effluent
0412-3304	Post-Carb
0412-3305	Trip Blank

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

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

Sincerely,



Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

Page 1 of 10

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.03

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

Lab Project ID: 04-6464
Lab Sample ID: 0412-3302
Client Sample ID: Pre-Carb
Sample Matrix: Aqueous

Date Sampled: 12/29/2004
Date Received: 12/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Benzene	8260B ⁽¹⁾	8.1	1.0	ug/l	MAK	01/07/2005	0036268-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	20	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	4100	50	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	44	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-3302
Client Sample ID: Pre-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichloroethene	8260B ⁽¹⁾	1000	50	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	620	100	ug/l	MAK	01/07/2005	0036268-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

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

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-6464
Lab Sample ID: 0412-3303
Client Sample ID: Primary Effluent
Sample Matrix: Aqueous

Date Sampled: 12/29/2004

Date Received: 12/30/2004

Client Site: Essex-Hope

Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036266-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	6.8	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-3303
Client Sample ID: Primary Effluent

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	360	2.0	ug/l	MAK	01/07/2005	0036266-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Client Site: Essex-Hope
Client Ref.: 41567320.03

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

Lab Project ID: 04-6464
Lab Sample ID: 0412-3304
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 12/29/2004
Date Received: 12/30/2004

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036268-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	270	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036268-1	<10
Methylene chloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Lab Sample ID: 0412-3304

Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/07/2005	0036268-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036268-1	<5.0

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

Sample Comments: Results reported on an as received basis. VOA: Sample 0412-3304 was composited from 4 samples prior to analysis.

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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Lab Project ID: 04-6464
Lab Sample ID: 0412-3305
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 12/29/2004
Date Received: 12/30/2004

Client Site: Essex-Hope
Client Ref.: 41567320.03

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B ⁽¹⁾	34	10	ug/l	MAK	01/07/2005	0036266-1	<10
Benzene	8260B ⁽¹⁾	<1.0	1.0	ug/l	MAK	01/07/2005	0036266-1	<1.0
Bromodichloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromoform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Bromomethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Butanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Carbon Disulfide	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Carbon Tetrachloride	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloroform	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Chloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Cumene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Dibromochloromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,3-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,4-Dichlorobenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,2-Dichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,2-Dichloropropane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
cis-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
trans-1,3-Dichloropropene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Ethylbenzene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
2-Hexanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
4-Methyl-2-pentanone	8260B ⁽¹⁾	<10	10	ug/l	MAK	01/07/2005	0036266-1	<10
Methylene chloride	8260B ⁽¹⁾	250	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

(Continued)

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Lab Sample ID: 0412-3305
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2,2-Tetrachloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Tetrachloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Toluene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,1-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
1,1,2-Trichloroethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichloroethene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Trichlorofluoromethane	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
Vinyl chloride	8260B ⁽¹⁾	<2.0	2.0	ug/l	MAK	01/07/2005	0036266-1	<2.0
m,p-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0
o-Xylene	8260B ⁽¹⁾	<5.0	5.0	ug/l	MAK	01/07/2005	0036266-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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Section B

Section A

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Section C

Quote Reference:	
Project Manager:	
Project #:	04-6464
Profile #:	
Requested Analysis:	

Remarks / Lab ID
8260 1001

[illegible]

E	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	9:04 / 600	Fed Express	12-24-04	1600
	—	C Unobscuredly	12-30-04	1800

DATE Signed: (MM / DD / YY)
12-29-04

ORIGINAL