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MFM
f:907015

URS

January 21, 2003

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

Subject: **Essex/Hope Site**
Semi-Annual Self-Monitoring Report
July-December 2002
BPU Permit No. 26
URS Project No. 801419

Dear Mr. Peterson:

This submittal represents the July through December 2002 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 effluent data for July through December 2002. During the reporting period, the discharge water likely exceeded the permit limits for total VOCs concentrations at 2,130 ug/L sometime after July 1, 2002 and up to July 22, 2002, when a new carbon vessel was put online. This event was documented in a discharge non-compliance notification to the Jamestown BPU dated July 25, 2002, and documented in the previously

URS Corporation
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205
Tel: 412.788.2717
Fax: 412.788.1316

submitted Semi-Annual Self-Monitoring Report (January – June 2002). Discharge analytical results reported herein for the month of July are representative of the period between July 22, 2002 through July 30, 2002, after a new carbon treatment vessel was placed online. No other discharge non-compliance events occurred for the remainder of the year.

Discharge flow rates for the reporting period ranged from 76,887 to 191,280 gallons per month. The daily average flow rates shown on Table 1 was 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 discharged to the POTW 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,

Mark Dowiak
Project Manager

Attachment

cc: Ben Baker
Maurice Moore (NYSDEC)
Keith Dodrill (URS)
John Ross (URS)

Table 1

Discharge Monitoring Data - Pretreatment System
Essex/Hope Site
July - December 2002

Reporting Requirements for Pre-Treated Discharge	July 2002	August 2002	September 2002	October 2002	November 2002	December 2002
Total VOCs (ug/L) Detected compounds	217 ug/L cis-1,2-DCE Vinyl Chloride	Non-Detect	Non-Detect	Non-Detect	9 ug/L Vinyl Chloride	11 ug/L Vinyl Chloride cis-1,2-DCE
pH (Standard Units)	7.7	6.78	6.72	6.79	7.76	7.47 7.87 7.93 8.05
Monthly Total Flow (gallons)	79,908	78,653	76,887	191,280	171,019	137,181
Average Daily Flow (gallons)	2,578	2,537	2,563	6,170	5,701	6,522
Maximum Daily Flow (gallons)	3,093	3,045	3,075	7,404	6,841	7,826

Note:

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

VOCs discharge sample is a laboratory prepared composite of 4 grab samples collected at 30 minute intervals.

pH measurements recorded at the time of the first grab sample for July through November, and concurrent with each grab sample for December.

JULY LABORATORY RESULTS

Pace Analytical™
www.pacelabs.com

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

August 16, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on July 30, 2002. Please reference Pace project number 02-3139 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Indentification	Client Sample Identification
0207-1851	Pre-Carb
0207-1852	Primary Effluent
0207-1853	Post-Carb
0207-1857	Trip Blank

General Comments: Cooler temperature 15.1 ° C upon receipt. Ice was present.

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

Sincerely,

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-3139
Lab Sample ID: 0207-1853
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 07/28/2002
Date Received: 07/30/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	REC	08/08/2002	014465MB1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
cis-1,2-Dichloroethene	8260B(1)	200	10	ug/l	MAK	08/09/2002	014466MB1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Lab Sample ID: 0207-1853
Client Sample ID: Post-Carb

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Vinyl chloride	8260B[1]	17	2.0	ug/l	REC	08/08/2002	014465MB1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<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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www.pacelabs.com

Pace Analytical Services, Inc.
One Triangle Lane
Export, PA 15632
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Mr. Keith Dodrill
URS Corporation
Construction Services Division
Twin Towers, Suite 250
4955 Steubenville Pike
Pittsburgh, PA 15205

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-3139
Lab Sample ID: 0207-1857
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 07/28/2002
Date Received: 07/30/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Acetone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	REC	08/08/2002	014465MB1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	REC	08/08/2002	014465MB1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

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

Lab Sample ID: **0207-1857**
Client Sample ID: Trip Blank

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	REC	08/08/2002	014465MB1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	REC	08/08/2002	014465MB1	<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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™ www.pacelabs.com

689629

Page: 1 of 1

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company: URS
Address: 4955 Steubenville Pike
Pittsburgh PA 15205
Phone: 412-788-2717 Fax:

Section B — Required Client Information:

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

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

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

Section C

Quote Reference:
Project Manager:
Project #: 02-3139
Profile #:

Requested Analysis: 8260

Section D — Required Client Information:

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	PRE-CARB	WT	7-28-02	1130	2				X					1851
2	PRIMARY EFFLUENT			1130										1852
3	POST-CARB			1130										1853
4	POST-CARB			1200										1854
5	POST-CARB			1230										1855
6	POST-CARB			1300										1856
7	TEMP BLANK				1									—
8	TRIP BLANK				3									1857
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
FED-EXPRESS	827888330	7-29-02	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	John Ross - URS	7-29-02	1630	FED EX		
	FED EX			Montana Pace	7/30	1103

SAMPLE CONDITION

Temp in °C	15.1
Received on Ice	(Y) N
Sealed Cooler	(Y) N
Samples Intact	(Y) N

SAMPLE NOTES 4868 0215

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: (MM / DD / YY)

AUGUST LABORATORY RESULTS

Pace Analytical™
www.pacelabs.com

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

September 19, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on August 30, 2002. Please reference Pace project number 02-3626 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Indentification	Client Sample Identification
0208-2308	Pre-Carb
0208-2309	Primary Effluent
0208-2310	Post-Carb
0208-2314	Trip Blank

General Comments: Cooler temperature 9.6 ° C upon receipt. Ice was not present.

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

Sincerely,

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: **02-3626**
Lab Sample ID: **0208-2310**
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 08/28/2002
Date Received: 08/30/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Acetone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	09/12/2002	015389MB1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0

(Continued)

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Phone: 724.733.1161
Fax: 724.327.7793

Lab Sample ID: 0208-2310
Client Sample ID: Post-Carb

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	09/12/2002	015389MB1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: **02-3626**
Lab Sample ID: **0208-2314**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 08/28/2002
Date Received: 08/30/2002

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Acetone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	09/12/2002	015389MB1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	09/12/2002	015389MB1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Styrene	8260B(1)	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Fax: 724.327.7793

Lab Sample ID: **0208-2314**
Client Sample ID: Trip Blank

Volatiles (Cont.)

1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	09/12/2002	015389MB1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	09/12/2002	015389MB1	<5.0

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

Sample Comments: Results reported on an as received basis.

Antech Ltd.
Chain of Custody Record

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

For Laboratory Use Only
Laboratory Project No: 02 3026

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

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
			[illegible] 8.30.02		1[illegible]
Relinquished By: (Signature and Printed Name)	Date	Time	Received at Lab By: (Signature and Printed Name)	Date	Time

Antech Quote ID No.:
Antech Contact Name:
Client Purchase Order No:
Method of Shipment: Fed Ex.
Shipment ID: 8278 8330 4732 0215

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

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

Sample ID Number	Sample Description: Date	Time	Description	Grab	Composite	Circle Bottle Size: Chemistry (500 ml, 1000 ml)	Nutrient (250 ml, 500 ml)	Total Metals (250 ml, 500 ml)	Dissolved Metals (250 ml, 500 ml)	Cyanide (1000 ml)	Phenolics (1000 ml)	TOC (125 ml)	TOX (250 ml)	Sulfide (500 ml)	Oil & Grease (1000 ml)	TPHC (1000 ml)	Bacteriological (125 ml)	VOA (40 ml)	Organics: Pest/PCB/Herb/SV (1 or 2 (2 L))	Radiological (1000 ml)	VOA Sepa Jar: Soil (125 ml)	Widemouth Jar: Soil (250 ml, 500 ml, 1000 ml)	VOA Sampling Device 5g	VOA Methanol Vial (5ml / 25 ml)	PCB Wipe Can (Hexane)	Other (Please Specify)	No. of Containers	For Lab Use Only Laboratory ID
	8-28-02	1530	Pre-Carb	x														2								X	2	02 2308
		↓	Primary Effluent	x														2									2	2309
		↓	Post-Carb	x														2									2	2310
		1600	Post-Carb	x														2									2	~~2311~~
		1630	Post-Carb	x														2									2	~~2312~~
		1700	Post-Carb	x														2									2	~~2313~~
			Trip Blank															3									3	2314
			Temp Blank															1									1	

Special Instructions/Comments: Combine 4 post-Carb samples into (1) one for Analysis

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

Results To:
Client Name: Keith Dodrill
Company: URS Corp
Address: 4955 Steubenville Pike
Pittsburgh PA 15205

For Laboratory Use Only:
Sample Condition Upon Receipt/Comments:
Was Temperature Vial Sent With Cooler? YES ___ NO ___ Cooler Temperature:

Invoice To:
Client Name:
Company:
Address:

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

SEPTEMBER LABORATORY RESULTS

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October 15, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 1, 2002. Please reference Pace project number 02-4117 when inquiring about this report.

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Pace Sample Indentification	Client Sample Identification
0210-0485	Pre-Carb
0210-0486	Primary Effluent
0210-0487	Post Carb Comp
0210-0491	Trip Blank

General Comments: Cooler temperature 6.0 ° C upon receipt. Ice was present.

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

Sincerely,

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

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Fax: 724.327.7793

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

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Lab Project ID: 02-4117
Lab Sample ID: 0210-0487
Client Sample ID: Post Carb Comp
Sample Matrix: Aqueous

Date Sampled: 09/29/2002
Date Received: 10/01/2002

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	10/09/2002	0016177-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	10/09/2002	0016177-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0

(Continued)

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Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Sample ID: 0210-0487
Client Sample ID: Post Carb Comp

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Trifluorochloromethane	8260B[1]	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	10/09/2002	0016177-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex, Jamestown, NY
Client Ref.: 804041.81

Lab Project ID: **02-4117**
Lab Sample ID: **0210-0491**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 09/29/2002
Date Received: 10/01/2002

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	10/09/2002	0016177-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	10/09/2002	0016177-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Sample ID: **0210-0491**
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
Trifluorochloromethane	8260B[1]	<10	10	ug/l	MAK	10/09/2002	0016177-1	<10
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	10/09/2002	0016177-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	10/09/2002	0016177-1	<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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

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680987

Page: 1 of 1

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

Required Client Information: **Section A**

Company: URS
Address: Twin Tower Suite 250
4955 Steubenville Pike
Pittsburgh, PA. 15205
Phone: 412-788-2717 Fax: 412-788-1316

Required Client Information: **Section B**

Report To: Keith Dodrill
Copy To:
Invoice To: URS
PO
Project Name: Essex-Hope
Project Number: 801419.2030

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

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

Quote Reference:
Project Manager:
Project #: 02-411-7
Profile #:
Requested Analysis: 8260

Section D Required Client Information:

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	PRECARB	WT	9-29-02	0830	2				X					X
2	PRIMARY EFFLUENT			0830	1									
3	POSTCARB #1			0830										
4	POSTCARB #2			0900										
5	POSTCARB #3			0930										
6	POSTCARB #4			1000										
7	TRIPBLANK				3									
8	TMPBLANK				1									
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
FED EX	804809336040	9-30-02	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	URS	9-30-02	1700	FED EX		
	FED EX					

SAMPLE CONDITION

Temp in °C	6.0
Received on Ice	(Y)N
Sealed Cooler	(Y)N
Samples Intact	(Y)N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Ross
SIGNATURE of SAMPLER: John L. Ross
DATE Signed: (MM / DD / YY) 9-29-02

OCTOBER LABORATORY RESULTS

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One Triangle Lane
Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

November 13, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on October 30, 2002. Please reference Pace project number 02-4561 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.1010

Pace Sample Indentification	Client Sample Identification
0210-1863	Pre-Carb
0210-1864	Primary Effluent
0210-1865	Post-Carb
0210-1869	Trip Blank

General Comments: Cooler temperature 5.0 ° C upon receipt. Ice was present.

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

Sincerely,

Penelope J. Morris
Project Manager

PJG: jld

Enclosures

cc: Cheryl Cooper, URS Corporation

REPORT OF LABORATORY ANALYSIS

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: 02-4561
Lab Sample ID: 0210-1865
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 10/29/2002
Date Received: 10/30/2002

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	11/06/2002	0016875-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	11/06/2002	0016875-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Fax: 724.327.7793

Lab Sample ID: 0210-1865
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	11/06/2002	0016875-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<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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Export, PA 15632
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Fax: 724.327.7793

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

Client Site: Essex-Hope
Client Ref.: 801419.1010

Lab Project ID: **02-4561**
Lab Sample ID: **0210-1869**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 10/29/2002
Date Received: 10/30/2002

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	11/06/2002	0016875-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	11/06/2002	0016875-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	11/06/2002	0016875-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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Export, PA 15632
Phone: 724.733.1161
Fax: 724.327.7793

Lab Sample ID: 0210-1869
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	11/06/2002	0016875-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	11/06/2002	0016875-1	<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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

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691765

Page: 1 of 1

To Be Completed by Pace Analytical and Client

Required Client Information: Section A

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

Required Client Information: Section B

Report To: Keith Dodrill
Copy To:
Invoice To: URS
P.O.
Project Name: Essex-Hope
Project Number: 301419.2030

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

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

Section C

Quote Reference
Project Manager:
Project #: 02-4561
Profile #:
Requested Analysis:

Section D Required Client Information:

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	PRE-CARB	WT	10-29-02	1530	2									
2	PRIMARY Effluent			1530	2									
3	POST-CARB			1530	2									
4	POST-CARB			1600	2									
5	POST-CARB			1630	2									
6	POST-CARB			1700	2									
7	TRIPBLANK				3									
8	TEMPBLANK				1									
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
Fed-Ex	830712203631	10-29-02	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	John S. Kosa	10-29-02	1800	Fed-Ex		
					10-30-02	09:45

SAMPLE CONDITION

Temp in °C	5.0
Received on Ice	(Y)N
Sealed Cooler	(Y)N
Samples Intact	(Y)N

SAMPLE NOTES

Additional Comments:

8100

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: (MM / DD / YY)

NOVEMBER LABORATORY RESULTS

Pace Analytical™
www.pacelabs.com

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

December 12, 2002

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on November 27, 2002. Please reference Pace project number 02-5034 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Indentification	Client Sample Identification
0211-1921	Pre-Carb
0211-1922	Primary Effluent
0211-1923	Post-Carb
0211-1924	Trip Blank

General Comments: Cooler temperature 6.0 ° C upon receipt. Ice was present.

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

Sincerely,

Raelyn E. Sylvester
Project Manager

REC: jld

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: 02-5034
Lab Sample ID: 0211-1923
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 11/25/2002
Date Received: 11/27/2002

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	12/09/2002	0017632-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	12/09/2002	0017632-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

Lab Sample ID: **0211-1923**
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Vinyl chloride	8260B[1]	9.0	2.0	ug/l	MAK	12/09/2002	0017632-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0

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

Sample Comments: Results reported on an as received basis.

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

Client Site: Essex-Hope
Client Ref.: 801419.2030

Lab Project ID: **02-5034**
Lab Sample ID: **0211-1924**
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 11/25/2002
Date Received: 11/27/2002

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	12/09/2002	0017632-1	<10
Benzene	8260B(1)	<1.0	1.0	ug/l	MAK	12/09/2002	0017632-1	<1.0
Bromodichloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Bromoform	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Bromomethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
2-Butanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
Carbon Disulfide	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Carbon Tetrachloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloroform	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Chloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Cumene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Dibromochloromethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,3-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,4-Dichlorobenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichloroethane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
cis-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
trans-1,2-Dichloroethene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,2-Dichloropropane	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
cis-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
trans-1,3-Dichloropropene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Ethylbenzene	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
2-Hexanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
4-Methyl-2-pentanone	8260B(1)	<10	10	ug/l	MAK	12/09/2002	0017632-1	<10
Methylene chloride	8260B(1)	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0

(Continued)

REPORT OF LABORATORY ANALYSIS

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

Lab Sample ID: **0211-1924**
Client Sample ID: Trip Blank

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	12/09/2002	0017632-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	12/09/2002	0017632-1	<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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™ www.pacelabs.com

716165

Page: of

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company: URS. Corp
Address: Twin Towers Suite 250
4955 Steubenville Pike
Pittsburgh, PA. 15205
Phone: Fax:

Section B — Required Client Information:

Report To: Keith Dodrill
Copy To:
Invoice To: URS
PO:
Project Name: Essex-Hope
Project Number: 801419.2030

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

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

Section C

Quote Reference:
Project Manager:
Project #: 5034
Profile #:
Requested Analysis: 8260

Section D — Required Client Information:

SAMPLE ID

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	PRE-CARB	WT	11-25-02	0700	2				X					1721
2	PRIMARY Effluent			0700	1				X					1722
3	POST-CARB			0700	2				X					1723
4	POST-CARB			1000	2				X					
5	POST-CARB			1300	2				X					
6	POST-CARB			1600	2				X					
7	TRIP-BLANK				3									1724
8	TEMP-BLANK				1									
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
Fed-Ex	804809336083	11-26-02	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	John S. Ross	11-26-02	1630	Fed Express	11-26-02	1630
	Fed Ex			John S. Ross	11-26-02	

SAMPLE CONDITION

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

SAMPLE NOTES

Combine 4 Post-Carb Samples into 1 for Analysis

Additional Comments:

0100

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John S. Ross
SIGNATURE of SAMPLER: John S. Ross
DATE Signed: (MM / DD / YY) 11-25-02

DECEMBER LABORATORY RESULTS

January 13, 2003

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

Dear Mr. Dodrill:

Enclosed are analytical results for samples submitted to Pace Analytical by URS Corporation. The samples were received on January 3, 2003. Please reference Pace project number 03-0076 when inquiring about this report.

Client Site: Essex-Hope
Client Ref.: 801419.2030

Pace Sample Indentification	Client Sample Identification
0301-0492	Pre-Carb
0301-0493	Primary Effluent
0301-0494	Secondary Effluent
0301-0495	Post-Carb
0301-0499	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: rec

Enclosures

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

Lab Project ID: 03-0076
Lab Sample ID: 0301-0495
Client Sample ID: Post-Carb
Sample Matrix: Aqueous

Date Sampled: 12/31/2002
Date Received: 01/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Benzene	8260B[1]	<1.0	1.0	ug/l	MAK	01/06/2003	0018263-1	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
2-Butanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
cis-1,2-Dichloroethene	8260B[1]	5.7	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
2-Hexanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
4-Methyl-2-pentanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0

(Continued)

Lab Sample ID: **0301-0495**
Client Sample ID: Post-Carb

Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Vinyl chloride	8260B[1]	5.3	2.0	ug/l	MAK	01/06/2003	0018263-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<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.

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

Lab Project ID: 03-0076
Lab Sample ID: 0301-0499
Client Sample ID: Trip Blank
Sample Matrix: Aqueous

Date Sampled: 12/31/2002
Date Received: 01/03/2003

Client Site: Essex-Hope
Client Ref.: 801419.2030

Volatiles

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Volatile Organic Compounds, MS								
Acetone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Benzene	8260B[1]	<1.0	1.0	ug/l	MAK	01/06/2003	0018263-1	<1.0
Bromodichloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Bromoform	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Bromomethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
2-Butanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Carbon Disulfide	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Carbon Tetrachloride	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloroform	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Chloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Cumene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Dibromochloromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,3-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,4-Dichlorobenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
cis-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
trans-1,2-Dichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,2-Dichloropropane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
cis-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
trans-1,3-Dichloropropene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Ethylbenzene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
2-Hexanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
4-Methyl-2-pentanone	8260B[1]	<10	10	ug/l	MAK	01/06/2003	0018263-1	<10
Methylene chloride	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0

(Continued)

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Volatiles (Cont.)

Styrene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,2,2-Tetrachloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Tetrachloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Toluene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,1-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
1,1,2-Trichloroethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Trichloroethene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Trichlorofluoromethane	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
Vinyl chloride	8260B[1]	<2.0	2.0	ug/l	MAK	01/06/2003	0018263-1	<2.0
m,p-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<5.0
o-Xylene	8260B[1]	<5.0	5.0	ug/l	MAK	01/06/2003	0018263-1	<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.