PARSONS

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November 14, 2002

Mr. Walter Winstsch
New York State Department of Environmental Conservation
Office of Environmental Quality, Region 4
1150 North Wescott Road
Schenectady, New York 12306-2014

Subject: September 2002 Quarterly Sampling Results for Alexander Schmigel Site
Hoosick Falls, New York

Dear Mr. Winstsch:

On behalf of Honeywell, Parsons is pleased to present this letter report for the quarterly groundwater sampling effort at Honeywell's Alexander Schmigel site in Hoosick Falls, New York. Parsons conducted quarterly sampling on September 26 and 27, 2002 in accordance with Parsons' Work Approval Form (WAF) dated September 9, 2002. The following sections describe the project approach and findings for the sampling effort. Attachment 1 presents a site plan, summary graphs, and summary tables. Attachment 2 presents copies of the laboratory analytical data.

Groundwater samples were collected at monitoring wells OW-27, OW-28, OW-29, as well as the cistern located north of OW-29 (Figure 1). The Bentley residence well (RW-2) no longer exists as the house burned down some time between the last sampling event conducted in June 1999 by ENSR and the current quarterly sampling event conducted by Parsons. The house location has been excavated and no evidence of the former residential well was found.

Background

The site is located northeast of Hoosick Falls, New York. Background information indicates the site was at one time a sand and gravel pit where various waste materials (i.e., construction and demolition debris), including approximately 165 partially full drums of waste products, were placed. Several rounds of groundwater sample results since 1986 have showed volatile organic compounds (VOCs) present in groundwater, with a general trend of decreasing concentrations over time. Quarterly groundwater sampling was last conducted in June 1999. Acetone, toluene, ethylbenzene, and xylenes were detected in OW-27 (78 ug/L, 3.6 ug/L, 54 ug/L, and 160 ug/L respectively), and acetone was detected in OW-28 (31 ug/L) under this quarterly sampling event. In a letter dated May 17, 2002, the New York State Department of Environmental Conservation (NYSDEC) requested that Honeywell resume the quarterly monitoring program.

Groundwater Sampling

Parsons mobilized to the site on September 26, 2002 to purge and sample monitoring wells OW-27, OW-28 and OW-29 and the cistern. This sampling event is the first round since June 1999, and the first of a one-year quarterly sampling program.

Parsons purged each well using a low-flow peristaltic pump. All associated tubing was dedicated to one well/cistern to prevent cross-contamination. Groundwater field parameters (pH, temperature, and specific conductance) were measured for OW-28 and the cistern during purging (Table 1). The wells were allowed to recharge before sampling occurred. Recharge rates for OW-27 and OW-29 were extremely low. As a result, field parameter measurements were not collected to maximize the amount of water for laboratory analysis. The cistern and OW-28 were purged and sampled on September 26, 2002. The remaining observation wells were purged and sampled on the following day. The protective casing and PVC casing for OW-28 have been damaged. The protective casing on OW-29 was noted to be loose and supported by the PVC riser.

Groundwater samples from the three monitoring wells and the cistern, as well as a duplicate sample from OW-28, were collected and submitted for analysis to Columbia Analytical Services (CAS) in Rochester, New York, using standard chain-of-custody procedures. Samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) (EPA SW846 Method 8260B) and methyl cellosolve (EPA SW846 Method 8015). Laboratory data sheets are presented in Attachment 2.

Results and Conclusions

Acetone was the only analyte detected in the samples. Acetone was detected at OW-27 at a concentration of 210 ug/L. Figure 2 shows historical concentrations of acetone at OW-27. No other VOCs were detected in OW-27.

Parsons appreciates the opportunity to work with you on this project. The next quarterly sampling event is scheduled for December 2002. Please feel free to contact me at (315) 451-9560 or, Ms. Maria Kaouris at (973) 455-3302 if you have any questions concerning the project or this report.

Sincerely,

Thomas H. Abrams
Project Manager

cc. Project File 742641
Deb Christian, NYSDEC
David Cooke, Honeywell
Maria Kaouris, Honeywell

ATTACHMENT 1

FIGURES AND TABLES

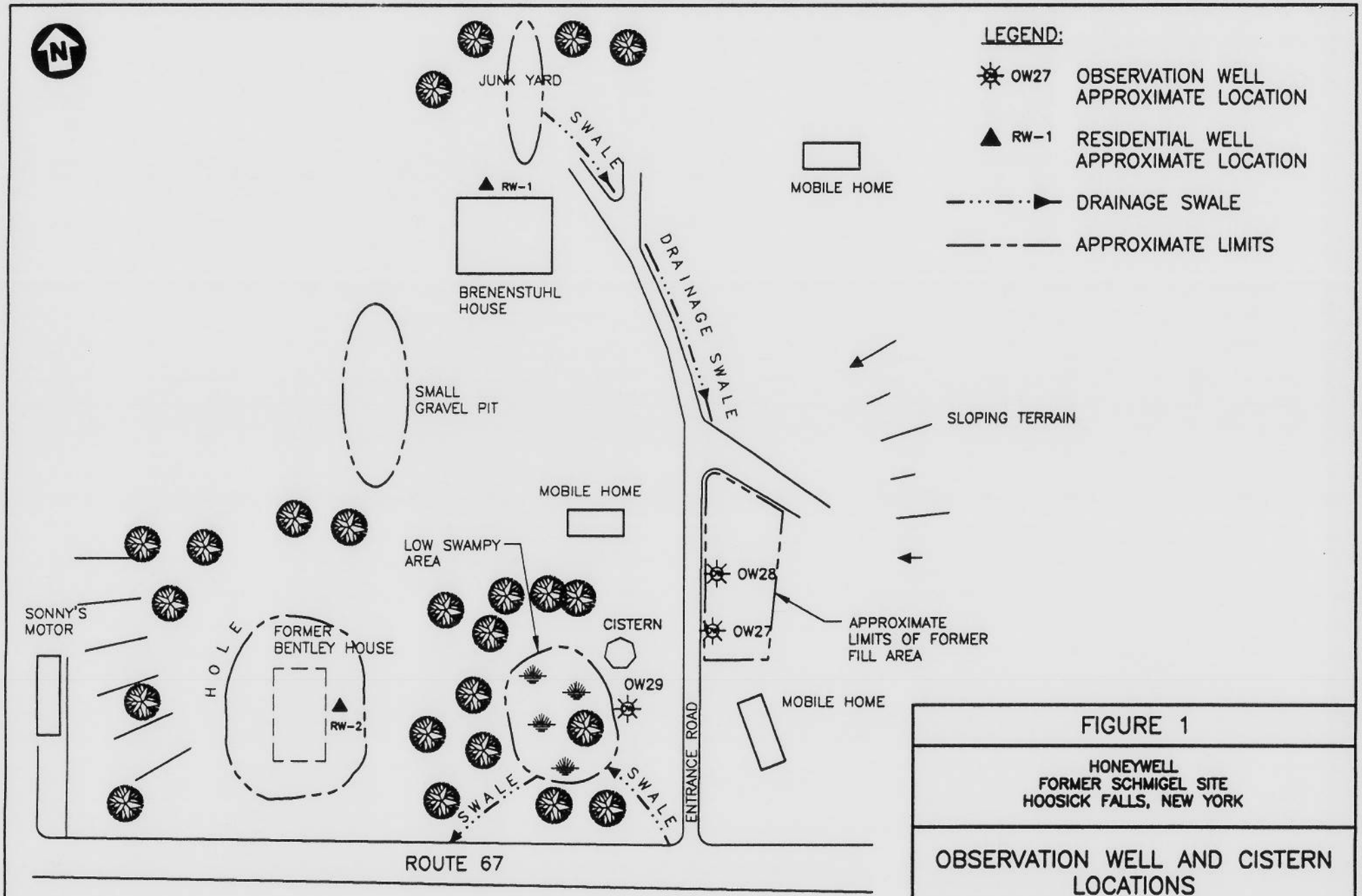

FIGURE 1

HONEYWELL
FORMER SCHMIGEL SITE
HOOSICK FALLS, NEW YORK

OBSERVATION WELL AND CISTERN LOCATIONS

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

No XREFs
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Figure 2
Acetone Concentration Vs. Time, Well OW-27

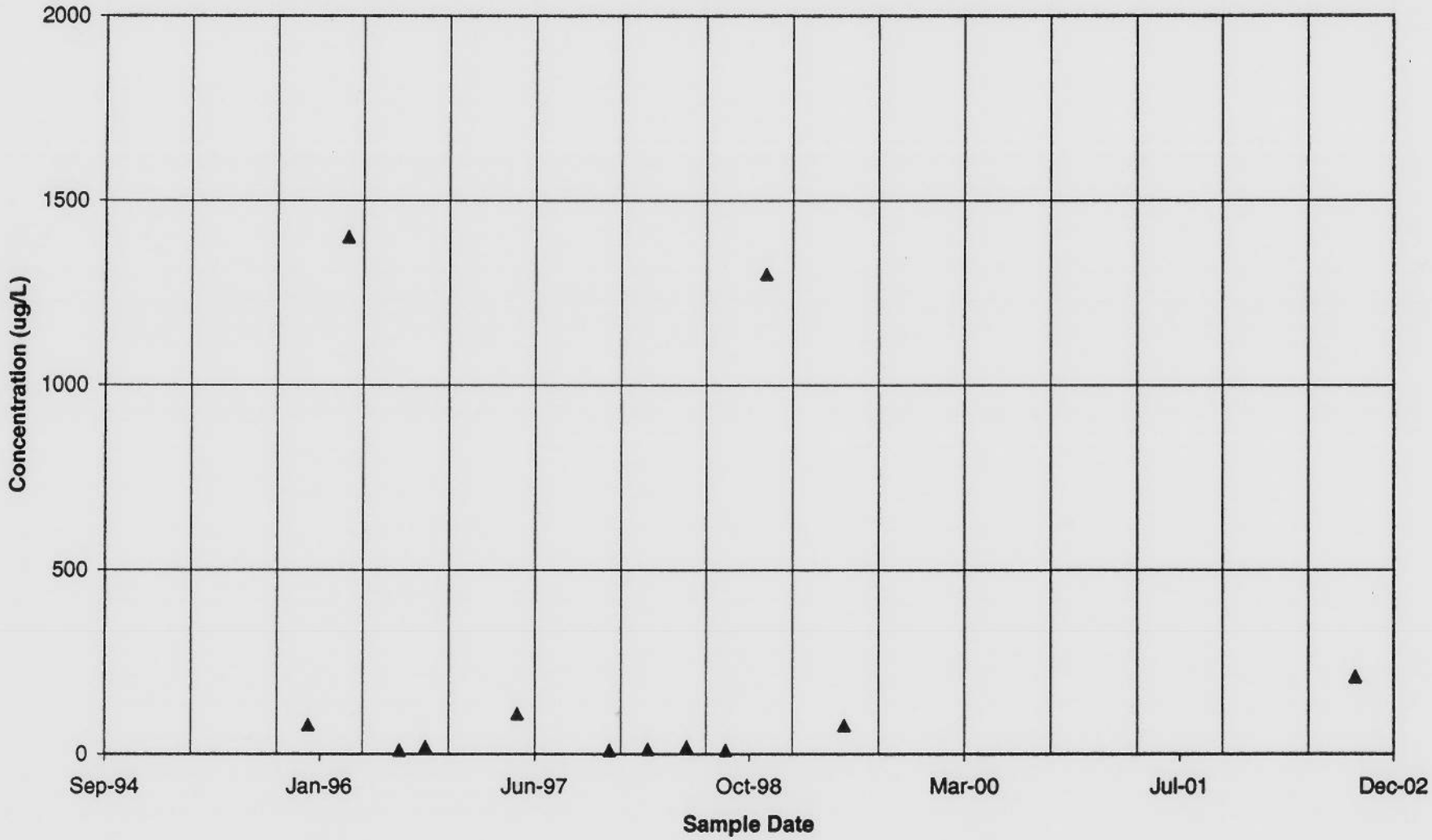


Table 1 Water Level Measurement and Groundwater Field Parameters
September 26-27 2002

Monitoring Well	pH	Temperature	Oxygen [illegible]	[illegible]	[illegible]	Purge Rate [illegible]
OW-27	NA	NA	NA	0.03	NA	100
OW-28	5.79	58	0.07	2.1	8.1	400
OW-29	NA	NA	NA	0.03	13.64	100
Cistern	6.39	58.6	0.09	5-6	1.14	150

NA - Not Available

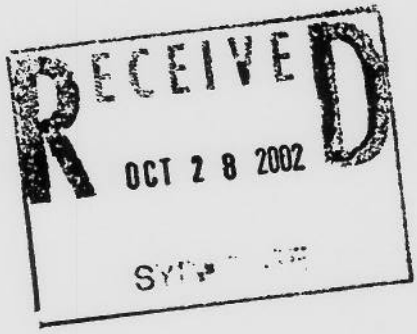
Depth to GW

ATTACHMENT 2

LABORATORY ANALYSIS

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY



October 24, 2002

Mr. Thomas Abrams
Parsons Engineering Science
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

PROJECT:ALEXANDER SCHMIGEL PN-742641.06520
Submission #:R2214020

Dear Mr. Abrams

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Mark Wilson
Client Service Manager

Enc.

1 Mustard St.• Suite 250 • Rochester, NY 14609 • Tele:(585)288-5380 • Fax:(585)288-8475

Columbia Analytical Services, Inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Lab Submission # : R2214020
Project Manager : Mark Wilson
Reported : 10/23/02

Report Contains a total of 21 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Kerns

Columbia Analytical Services Inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2214020

Lab ID	Client ID
588717	C1S01
588718	HF-OW-28
588719	HF-OW-27
588720	HF-OW-29
588721	TRIP BLANK
588722	HF-DUP

All samples were received in good condition.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

02

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

QUALITY ETHICS SERVICE
ACL Environmental Sciences

Effective 6/18/2002

ORGANIC QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

CAS/Rochester Lab ID # for State Certifications

Army Corp of Engineers Validated
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : C1S01

Date Sampled : 09/26/02 Order #: 588717 Sample Matrix: WATER
Date Received: 09/27/02 Submission #: R2214020 Analytical Run 84604

DATE ANALYZED : 10/08/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	107	%
TOLUENE-D8	(91 - 113 %)	103	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	102	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : C1S01

Date Sampled : 09/26/02 **Order #:** 588717 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED : 10/10/02				
ANALYTICAL DILUTION: 1.00				
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-28

Date Sampled : 09/26/02 Order #: 588718 Sample Matrix: WATER
Date Received: 09/27/02 Submission #: R2214020 Analytical Run 84604

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	108	%
TOLUENE-D8	(91 - 113 %)	105	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	104	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-28

Date Sampled : 09/26/02 **Order #:** 588718 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED : 10/10/02				
ANALYTICAL DILUTION: 1.00				
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		91	%

07

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-27

Date Sampled : 09/27/02 Order #: 588719 Sample Matrix: WATER
Date Received: 09/27/02 Submission #: R2214020 Analytical Run 84604

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/08/02			
ANALYTICAL DILUTION: 10.00			
ACETONE	10	210	UG/L
BENZENE	1.0	10 U	UG/L
BROMODICHLOROMETHANE	1.0	10 U	UG/L
BROMOFORM	1.0	10 U	UG/L
BROMOMETHANE	1.0	10 U	UG/L
2-BUTANONE (MEK)	5.0	50 U	UG/L
CARBON DISULFIDE	5.0	50 U	UG/L
CARBON TETRACHLORIDE	1.0	10 U	UG/L
CHLOROBENZENE	1.0	10 U	UG/L
CHLOROETHANE	1.0	10 U	UG/L
CHLOROFORM	1.0	10 U	UG/L
CHLOROMETHANE	1.0	10 U	UG/L
DIBROMOCHLOROMETHANE	1.0	10 U	UG/L
1,1-DICHLOROETHANE	1.0	10 U	UG/L
1,2-DICHLOROETHANE	1.0	10 U	UG/L
1,1-DICHLOROETHENE	1.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	10 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	10 U	UG/L
1,2-DICHLOROPROPANE	1.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	10 U	UG/L
ETHYLBENZENE	1.0	10 U	UG/L
2-HEXANONE	5.0	50 U	UG/L
METHYLENE CHLORIDE	1.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	50 U	UG/L
STYRENE	1.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	10 U	UG/L
TETRACHLOROETHENE	1.0	10 U	UG/L
TOLUENE	1.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	10 U	UG/L
TRICHLOROETHENE	1.0	10 U	UG/L
VINYL CHLORIDE	1.0	10 U	UG/L
O-XYLENE	1.0	10 U	UG/L
M+P-XYLENE	1.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	107	%
TOLUENE-D8	(91 - 113 %)	105	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	102	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-27

Date Sampled : 09/27/02 **Order #:** 588719 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED : 10/10/02				
ANALYTICAL DILUTION: 1.00				
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-29

Date Sampled : 09/27/02 **Order #:** 588720 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 84604

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	106	%
TOLUENE-D8	(91 - 113 %)	104	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	104	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-OW-29

Date Sampled : 09/27/02 **Order #:** 588720 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED	: 10/10/02			
ANALYTICAL DILUTION:	1.00			
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		84	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : TRIP BLANK

Date Sampled : 09/27/02 **Order #:** 588721 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 84604

DATE ANALYZED : 10/08/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	106	%
TOLUENE-D8	(91 - 113 %)	103	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	103	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : TRIP BLANK

Date Sampled : 09/27/02 **Order #:** 588721 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/10/02			
ANALYTICAL DILUTION: 1.00			
METHYL CELLOSOLVE	1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS		
1-PROPANOL	(50 - 150 %)	83	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/05/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-DUP

Date Sampled : 09/26/02 **Order #:** 588722 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 84604

DATE ANALYZED : 10/08/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	1.0	1.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
CARBON DISULFIDE	5.0	5.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	1.0	1.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	107	%
TOLUENE-D8	(91 - 113 %)	106	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	104	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Parsons Engineering Science
Project Reference: ALEXANDER SCHMIGEL PN-742641.06520
Client Sample ID : HF-DUP

Date Sampled : 09/26/02 **Order #:** 588722 **Sample Matrix:** WATER
Date Received: 09/27/02 **Submission #:** R2214020 **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED	: 10/10/02			
ANALYTICAL DILUTION:	1.00			
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		88	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 595466 ANALYTICAL RUN # : 84095

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 10/08/02			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	107	50 - 150
BENZENE	20.0	120	70 - 130
BROMODICHLOROMETHANE	20.0	119	70 - 130
BROMOFORM	20.0	110	70 - 130
BROMOMETHANE	20.0	111	50 - 150
2-BUTANONE (MEK)	20.0	119	50 - 150
CARBON DISULFIDE	20.0	100	70 - 130
CARBON TETRACHLORIDE	20.0	125	70 - 130
CHLOROBENZENE	20.0	119	70 - 130
CHLOROETHANE	20.0	117	70 - 130
CHLOROFORM	20.0	124	70 - 130
CHLOROMETHANE	20.0	106	70 - 130
DIBROMOCHLOROMETHANE	20.0	111	70 - 130
1,1-DICHLOROETHANE	20.0	126	70 - 130
1,2-DICHLOROETHANE	20.0	114	70 - 130
1,1-DICHLOROETHENE	20.0	124	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	122	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	122	70 - 130
1,2-DICHLOROPROPANE	20.0	118	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	126	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	122	70 - 130
ETHYLBENZENE	20.0	121	70 - 130
2-HEXANONE	20.0	113	70 - 130
METHYLENE CHLORIDE	20.0	117	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	115	70 - 130
STYRENE	20.0	119	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	117	70 - 130
TETRACHLOROETHENE	20.0	117	70 - 130
TOLUENE	20.0	121	70 - 130
1,1,1-TRICHLOROETHANE	20.0	124	70 - 130
1,1,2-TRICHLOROETHANE	20.0	112	70 - 130
TRICHLOROETHENE	20.0	119	70 - 130
VINYL CHLORIDE	20.0	120	70 - 130
O-XYLENE	20.0	120	70 - 130
M+P-XYLENE	40.0	120	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/23/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 595465 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 84095

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 118 %)	107	%
TOLUENE-D8	(91 - 113 %)	105	%
DIBROMOFLUOROMETHANE	(87 - 115 %)	103	%

QUALITY CONTROL SUMMARY LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 591982

Client ID:

Test: 8015B METHANOL

Analytical Units: UG/L

Run Number : 83597

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		QC LIMITS
			FOUND	% REC.	REC.
METHYL CELLOSOLVE	20000	0	17400	87	50 - 150

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8015B METHANOL
Reported: 10/23/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 591981 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 83597

ANALYTE		PQL	RESULT	UNITS
DATE ANALYZED	: 10/10/02			
ANALYTICAL DILUTION:	1.00			
METHYL CELLOSOLVE		1000	1000 U	UG/L
SURROGATE RECOVERIES	QC LIMITS			
1-PROPANOL	(50 - 150 %)		90	%

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name/# ~~Hess~~ Alexander Schmigel	Project Number 742641.06520
Project Manager Tom Abrams	Report CC
Company/Address 290 Elwood Davis Road Suite 312 Liverpool, NY 13088	
Phone # (315) 451-9560	FAX# (315) 451 9570
Sampler's Signature	Sampler's Printed Name James W Schuetz

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Methyl 8015 Cellosolve

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260	METALS, DISSOLVED (List in comments below)	Methyl 8015 Cellosolve
C1501	SB27[illegible]	9/26/02	1615	W	6	✓	✓	
HF-OW-28	[illegible]18	9/26/02	1830	W	6	✓	✓	
HF-OW-27	[illegible]19	9/27/02	945	W	3	✓	✓	
HF-OW-29	[illegible]20	9/27/02	1000	W	6	✓	✓	
Trip Blank	[illegible]21			W	6	✓	✓	
Temp Blank	[illegible]-			W	1			
HF-DUP	[illegible]22	9/26/02	1830	W	6	✓	✓	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
✓ STANDARD 2 weeks
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:
10/22/2020
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name James W Schuetz	Printed Name Heather Lavery	Printed Name	Printed Name	Printed Name	Printed Name
Firm Parsons	Firm CAS	Firm	Firm	Firm	Firm
Date/Time 9/27/02 1700	Date/Time 9/27/02	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0402-40

Cooler Receipt And Preservation Check Form

Project/Client Parsons Submission Number 14020

Cooler received on 9/27/02 by: NP COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?			(YES)	NO	
2.	Were custody papers properly filled out (ink, signed, etc.)?			(YES)	NO	
3.	Did all bottles arrive in good condition (unbroken)?			(YES)	NO	
4.	Did any VOA vials have significant air bubbles?			YES	(NO)	N/A
5.	Were Ice or Ice packs present?			(YES)	NO	
6.	Where did the bottles originate?			(CAS/ROC)	CLIENT	
7.	Temperature of cooler(s) upon receipt:	4°				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 9/27/02 1705

Thermometer ID: 161 (or IR GUN) Reading From: Temp Blank or (Sample Bottle)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 9/30/02 by: BC

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
	911 c2	MM 10/24		

Other Comments: