UCAR

UCAR CARBON COMPANY INC. P.O. Box 513, Columbia, TN 38402-0513

(931) 388-1410

32N03.GW67

November 18, 2004

Ms. Mary F. McIntosh
Engineering Geologist II
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Ms. McIntosh:

SUBJECT: Semi-Annual Monitoring Event
UCAR Republic SWMF #32N03

The semi-annual monitoring event for the above-referenced Site was conducted September 17 and 24, 2004. The sample collection and analyses were performed in accordance with the program outlined in the letters from M. McIntosh (New York State Department of Environmental Conservation) to R. Bucci (UCAR), dated January 18, 2000 and February 23, 2000. A sample collection and analysis summary is presented in Table 1 and water level elevations measured prior to well purging are presented in Table 2.

Due to low well volumes and slow recharge no sample was collected from monitoring well MW-2 during this monitoring event. The well was purged to dryness and did not recover sufficient volume for sampling within 3 days following purging. (See "Field Sampling Plan, Post-Closure Monitoring Program" dated June 2000, Section 3.2.2.)

The analytical laboratory report for this sampling event is enclosed and the data are summarized in Table 3. The analytical data from this monitoring event are consistent with the historical data.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned. Just to let you know that the UCAR location in Niagara Falls has closed it's office, I will still be responsible for the landfill, you may contact me at (716) 297-6772 or by mail at 3344 Wildwood Dr Niagara Falls, New York 14304.

Yours truly,

Robert Bucci
Consultant

R. Bucci
Encl.
c.c.: M. Hans
M. Hinton

TABLE 2

HYDRAULIC MONITORING
POST-CLOSURE MONITORING PROGRAM
UCAR REPUBLIC SWMU #32NO3
NIAGARA FALLS, NEW YORK
SEPTEMBER 2004

Well I.D.	*TOC Elevation (Ft. AMSL)*	*Depth to Water (Ft. BTOC)*	*Water Level Elevation (Ft. AMSL)*
MW-1	612.00	9.24	602.76
MW-2	608.17	23.78	584.39
MW-3	601.89	5.69	596.20
BW-1	610.72	12.30	598.42
BW-2	608.43	10.64	597.79
BW-3	604.72	8.50	596.22
BW-4	607.08	8.23	598.85
BW-5	603.33	4.78	598.55
BW-6	607.04	15.58	591.46
GW-8B	603.90	9.82	594.08
GW-9B	603.40	11.89	591.51

Notes:

AMSL	Above Mean Sea Level.
BTOC	Below Top of Casing.
Ft.	Feet.
NM	Not Measured.

TABLE 3

ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR CARBON COMPANY, INC.
NIAGARA FALLS, NY
SEPTEMBER 2004

	Sample ID:	GW-092404-DJT-004	GW-092404-DJT-011	GW-092404-DJT-007	GW-092404-DJT-005	GW-092404-DJT-006	GW-092404-DJT-009
	Location ID:	BW-1	BW-2	BW-3	BW-4	BW-4	BW-5
	Collection Date:	09/24/04	09/24/04	09/24/04	09/24/04	09/24/04 Duplicate	09/24/04
Parameters	Units						
TCL Volatiles							
Acetone	µg/L	20 U	-	20 U	50 U	40 U	-
Benzene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Bromodichloromethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Bromoform	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Bromomethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
2-Butanone	µg/L	10 U	-	10 U	25 U	20 U	-
Carbon disulfide	µg/L	10 U	-	10 U	25 U	20 U	-
Carbon tetrachloride	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Chlorobenzene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Chloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Chloroform	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Chloromethane	µg/L	15 ✓	-	56	49 ✓	37 ✓	-
Dibromochloromethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,1-Dichloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,2-Dichloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,1-Dichloroethene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
cis-1,2-Dichloroethene	µg/L	5.0 U	-	5.0 U	370 ✓	390 ✓	-
trans-1,2-Dichloroethene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,2-Dichloropropane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
cis-1,3-Dichloropropene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
trans-1,3-Dichloropropene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Ethyl benzene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
2-Hexanone	µg/L	10 U	-	10 U	25 U	20 U	-
Methylene chloride	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
4-Methyl-2-pentanone	µg/L	10 U	-	10 U	25 U	20 U	-
Styrene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Tetrachloroethene	µg/L	5.0 U	-	5.0 U	55 ✓	56 ✓	-
1,1,1-Trichloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
1,1,2-Trichloroethane	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Toluene	µg/L	5.0 U	-	5.0 U	13 U	10 U	-

ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR CARBON COMPANY, INC.
NIAGARA FALLS, NY
SEPTEMBER 2004

	Sample ID:	GW-092404-DJT-004	GW-092404-DJT-011	GW-092404-DJT-007	GW-092404-DJT-005	GW-092404-DJT-006	GW-092404-DJT-009
	Location ID:	BW-1	BW-2	BW-3	BW-4	BW-4	BW-5
	Collection Date:	09/24/04	09/24/04	09/24/04	09/24/04	09/24/04 Duplicate	09/24/04
Parameters	Units						
TCL Volatiles (Cont'd.)							
Trichloroethene	µg/L	5.0 U	-	5.0 U	290	290	-
Vinyl chloride	µg/L	5.0 U	-	6.1	75	79	-
o-Xylenes	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
m/p-Xylenes	µg/L	5.0 U	-	5.0 U	13 U	10 U	-
Metals							
Iron (total)	mg/L	3.46	4.34	1.60	5.98	5.00	3.78
Potassium (total)	mg/L	6.07	6.57	3.21	16.2	16.2	2.32
Zinc (total)	mg/L	4.02	1.54	0.625	2.09	1.39	0.0990
Iron (dissolved)	mg/L	-	-	-	-	-	-
Potassium (dissolved)	mg/L	-	-	-	-	-	-
Zinc (dissolved)	mg/L	-	-	-	-	-	-
General Chemistry							
Ammonia	mg/L	0.827	0.350	0.417	2.85	2.77	0.110
Nitrite	mg/L	0.0100 U	0.0450 J	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Total Kjeldahl Nitrogen	mg/L	1.73	1.06	0.764	3.39	3.21	0.385

Notes:
- Not applicable.
J Estimated
TCL Target Compound List
U Non-detect at associated value.

TABLE 3

ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR CARBON COMPANY, INC.
NIAGARA FALLS, NY
SEPTEMBER 2004

	Sample ID:	*GW-092404-DJT-008*	*GW-092404-DJT-003*	*GW-092404-DJT-010*	*GW-092004-DJT-002*	*GW-091704-DJT-001*
	Location ID:	*BW-6*	*GW-8B*	*GW-9B*	*MW-1*	*MW-3*
	Collection Date:	*09/24/04*	*09/24/04*	*09/24/04*	*09/20/04*	*09/17/04*
Parameters	***Units***					
TCL Volatiles						
Acetone	µg/L	20 U	20 U	-	-	-
Benzene	µg/L	5.0 U	5.0 U	-	-	-
Bromodichloromethane	µg/L	5.0 U	5.0 U	-	-	-
Bromoform	µg/L	5.0 U	5.0 U	-	-	-
Bromomethane	µg/L	5.0 U	5.0 U	-	-	-
2-Butanone	µg/L	10 U	10 U	-	-	-
Carbon disulfide	µg/L	10 U	10 U	-	-	-
Carbon tetrachloride	µg/L	5.0 U	5.0 U	-	-	-
Chlorobenzene	µg/L	5.0 U	5.0 U	-	-	-
Chloroethane	µg/L	5.0 U	5.0 U	-	-	-
Chloroform	µg/L	5.0 U	5.0 U	-	-	-
Chloromethane	µg/L	12	70	-	-	-
Dibromochloromethane	µg/L	5.0 U	5.0 U	-	-	-
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	-	-	-
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	-	-	-
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	-	-	-
cis-1,2-Dichloroethene	µg/L	5.0 U	20	-	-	-
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	-	-	-
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	-	-	-
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	-	-	-
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	-	-	-
Ethyl benzene	µg/L	5.0 U	5.0 U	-	-	-
2-Hexanone	µg/L	10 U	10 U	-	-	-
Methylene chloride	µg/L	5.0 U	5.0 U	-	-	-
4-Methyl-2-pentanone	µg/L	10 U	10 U	-	-	-
Styrene	µg/L	5.0 U	5.0 U	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	-	-	-
Tetrachloroethene	µg/L	5.0 U	5.0 U	-	-	-
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	-	-	-
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	-	-	-
Toluene	µg/L	5.0 U	5.0 U	-	-	-

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SEMI-ANNUAL GROUNDWATER MONITORING
UCAR CARBON COMPANY, INC.
NIAGARA FALLS, NY
SEPTEMBER 2004

	Sample ID:	GW-092404-DJT-008	GW-092404-DJT-003	GW-092404-DJT-010	GW-092004-DJT-002	GW-091704-DJT-001
	Location ID:	BW-6	GW-8B	GW-9B	MW-1	MW-3
	Collection Date:	09/24/04	09/24/04	09/24/04	09/20/04	09/17/04
Parameters	**Units**					
TCL Volatiles (Cont'd.)						
Trichloroethene	µg/L	5.0 U	13	-	-	-
Vinyl chloride	µg/L	5.0 U	5.0 U	-	-	-
o-Xylenes	µg/L	5.0 U	5.0 U	-	-	-
m/p-Xylenes	µg/L	5.0 U	5.0 U	-	-	-
Metals						
Iron (total)	mg/L	21.6	0.462	0.467	0.87	2.71
Potassium (total)	mg/L	2.97	5.96	4.30	8.49	2.24
Zinc (total)	mg/L	0.0473	0.616	0.0200 U	0.0200 U	0.0200 U
Iron (dissolved)	mg/L	3.63	-	-	-	-
Potassium (dissolved)	mg/L	2.00 U	-	-	-	-
Zinc (dissolved)	mg/L	0.0200 U	-	-	-	-
General Chemistry						
Ammonia	mg/L	0.131	0.0567	0.402	0.457	0.0525
Nitrite	mg/L	0.0100 U	0.0100 U	0.0100 U	0.0451	0.0100 U
Total Kjeldahl Nitrogen	mg/L	0.845	0.249	0.874	1.00	0.726

Notes:
- - Not applicable.
- J Estimated
- TCL Target Compound List
- U Non-detect at associated value.

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

October 12, 2004

Ms. Susan Scrocchi
Conestoga Rovers & Associates
2055 Niagara Falls Blvd.
Suite Three
Niagara Falls, NY 14304

PROJECT:UCAR SEMIANNUAL -9/04
Submission #:R2422948

Dear Ms. Scrocchi

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

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services inc.

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

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Lab Submission # : R2422948
Project Manager : Karen Bunker
Reported : 10/12/04

Report Contains a total of 57 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.

Columbia Analytical Services, inc.

This report contains analytical results for the following samples:

Submission #: R2422948

Lab ID	Client ID
757776	GW-091704-DJT-001
757780	GW-092004-DJT-002
757782	GW-092404-DJT-003
757783	GW-092404-DJT-004
757785	GW-092404-DJT-005
757786	GW-092404-DJT-006
757788	GW-092404-DJT-007
757789	GW-092404-DJT-008
757790	GW-092404-DJT-009
757791	GW-092404-DJT-010
757792	GW-092404-DJT-011
757793	TB-092404-DJT
761791	GW-092404-CJT-008 SOLUBLE

Case Narrative

Company: Conestoga Rovers & Associates, Inc.
Project: UCAR Semiannual GW #5513-02
Submission #: R2422948

CRA collected UCAR water samples over the period from 9/17,20,24/04. Samples were submitted to the laboratory via CAS Courier on 9/17 and 9/21/04, and by Federal Express on 9/25/04. The sample GW-091704-DJT-001 was received at a cooler temperature of 8°C on the same day as sampled, within hours of collection. All other samples were received within the guideline temperatures of 4 ± 2°C. All samples were unbroken and on ice. Custody seals were used for the Federal Express shipment and were in tact upon receipt at the lab.

VOLATILE ORGANICS

A total of seven (7) water samples six groundwaters and a Trip Blank were analyzed for the Target Compound List of Volatile Organics, by Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

Site QC was performed on location GW-092404-DJT-003 (CAS Order # 757782) and is provided in the report package. All Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were within acceptance limits. All Relative Percent Difference (RPD) calculations were acceptable. All Laboratory Control Sample recoveries were within limits.

The Trip Blank and Laboratory Method Blanks associated with this analysis were free from contamination.

The Volatile Internal Standard Area and RT Summary Form 8A's are included in the report.

The sample vials were checked for preservation after analysis so as to maintain the integrity of the sample. All were found to be properly preserved to a pH of <2.

No other analytical or QC problems were encountered.

Inorganics

Eleven (11) water samples were submitted for analysis of TKN by method 351.2, Nitrite by method 353.2, Ammonia by method 350.1, and ICP metals- Iron, Potassium, and Zinc by method 6010B. One location was also analyzed for Soluble metals, the aliquot was field filtered.

All initial and continuing calibration criteria was met.

All analyses were completed within the appropriate holding time for the method except for one Nitrite sample collected on 9/25/04(Location GW-092404-DJT-001 – CAS Order #757792). Due to a laboratory error, this sample was analyzed on 9/28/04, outside the 48 hr holding time. Client was notified via email on 9/27/04.

Site QC is included in the report package for locations GW-092404-DJT-003 (CAS Order #757782) for all analyses except TKN and NH3. Samples GW-092404-DJT-005 (CAS Order #757785) and GW-092404-DJT-006 (CAS Order #757786) were QC locations for TKN and NH3 respectively. All Blank Spike Recoveries were within QC acceptance limits. All Method Blanks were free of contamination.

No problems were encountered during the analysis of these samples.

Columbia Analytical Services, Inc.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Service Quality Ethics ACIL 2003 Seal of Excellence Program Environmental

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.

* - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

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
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because of the presence of interference.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

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
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-091704-DJT-001

Date Sampled : 09/17/04 10:10 **Order #:** 757776 **Sample Matrix:** WATER
Date Received: 09/17/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0525	MG/L	09/22/04	09:12	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/17/04	15:13	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.726	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/13/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-091704-DJT-001

Date Sampled : 09/17/04 10:10 **Order #:** 757776 **Sample Matrix:** WATER
Date Received: 09/17/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	2.71	MG/L	09/22/04	1.0
POTASSIUM	6010B	2.00	2.24	MG/L	09/22/04	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	09/22/04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092004-DJT-002

Date Sampled : 09/20/04 15:15 **Order #:** 757780 **Sample Matrix:** WATER
Date Received: 09/21/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.457	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0451	MG/L	09/21/04	13:28	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.00	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092004-DJT-002

Date Sampled : 09/20/04 15:15 **Order #:** 757780 **Sample Matrix:** WATER
Date Received: 09/21/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.871	MG/L	09/27/04	1.0
POTASSIUM	6010B	2.00	8.49	MG/L	09/28/04	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	09/27/04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-003

Date Sampled : 09/24/04 09:15 **Order #:** 757782 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0567	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.249	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-003

Date Sampled : 09/24/04 09:15 **Order #:** 757782 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.462	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	5.96	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.616	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-003

Date Sampled : 09/24/04 09:15 **Order #:** 757782 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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	7.0	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	20	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	13	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 - 119 %)	109	%
TOLUENE-D8	(88 - 124 %)	106	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-004

Date Sampled : 09/24/04 10:00 **Order #:** 757783 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.827	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.73	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-004

Date Sampled : 09/24/04 10:00 **Order #:** 757783 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	3.46	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	6.07	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	4.02	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-004

Date Sampled : 09/24/04 10:00 **Order #:** 757783 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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	15	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 - 119 %)	108	%
TOLUENE-D8	(88 - 124 %)	104	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	109	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-005

Date Sampled : 09/24/04 10:30 **Order #:** 757785 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	2.85	MG/L	09/28/04	09:16	2.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	3.39	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-005

Date Sampled : 09/24/04 10:30 **Order #:** 757785 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.98	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	16.2	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	2.09	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-005

Date Sampled : 09/24/04 10:30 **Order #:** 757785 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
ANALYTICAL DILUTION: 2.50			
ACETONE	20	50 U	UG/L
BENZENE	5.0	13 U	UG/L
BROMODICHLOROMETHANE	5.0	13 U	UG/L
BROMOFORM	5.0	13 U	UG/L
BROMOMETHANE	5.0	13 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
CARBON DISULFIDE	10	25 U	UG/L
CARBON TETRACHLORIDE	5.0	13 U	UG/L
CHLOROBENZENE	5.0	13 U	UG/L
CHLOROETHANE	5.0	13 U	UG/L
CHLOROFORM	5.0	13 U	UG/L
CHLOROMETHANE	5.0	49	UG/L
DIBROMOCHLOROMETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHANE	5.0	13 U	UG/L
1,2-DICHLOROETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHENE	5.0	13 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	370	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
1,2-DICHLOROPROPANE	5.0	13 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
ETHYLBENZENE	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
METHYLENE CHLORIDE	5.0	13 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25 U	UG/L
STYRENE	5.0	13 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13 U	UG/L
TETRACHLOROETHENE	5.0	55	UG/L
TOLUENE	5.0	13 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	13 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	13 U	UG/L
TRICHLOROETHENE	5.0	290	UG/L
VINYL CHLORIDE	5.0	75	UG/L
O-XYLENE	5.0	13 U	UG/L
M+P-XYLENE	5.0	13 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 119 %)	107	%
TOLUENE-D8	(88 - 124 %)	108	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	104	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-007

Date Sampled : 09/24/04 11:15 **Order #:** 757788 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.417	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.764	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-007

Date Sampled : 09/24/04 11:15 **Order #:** 757788 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	1.60	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	3.21	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.625	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-007

Date Sampled : 09/24/04 11:15 **Order #:** 757788 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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	56	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	6.1	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 - 119 %)	110	%
TOLUENE-D8	(88 - 124 %)	106	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	103	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-008

Date Sampled : 09/24/04 11:30 Order #: 757789 Sample Matrix: WATER
Date Received: 09/25/04 Submission #: R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.131	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.845	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-008

Date Sampled : 09/24/04 11:30 **Order #:** 757789 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	21.6	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	2.97	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.0473	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/13/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-008 SOLUBLE

Date Sampled : 09/24/04 11:30 **Order #:** 761791 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	3.63	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	2.00 U	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-008

Date Sampled : 09/24/04 11:30 **Order #:** 757789 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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	12	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 - 119 %)	106	%
TOLUENE-D8	(88 - 124 %)	104	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	106	%

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-009

Date Sampled : 09/24/04 13:15 **Order #:** 757790 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.110	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.385	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-009

Date Sampled : 09/24/04 13:15 **Order #:** 757790 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	3.78	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	2.32	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.0990	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-010

Date Sampled : 09/24/04 14:00 **Order #:** 757791 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.402	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	0.874	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-010

Date Sampled : 09/24/04 14:00 **Order #:** 757791 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	0.467	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	4.30	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	0.0200 U	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-011

Date Sampled : 09/24/04 14:20 **Order #:** 757792 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.350	MG/L	09/28/04	09:16	1.0
NITRITE NITROGEN	353.2	0.0100	0.0450	MG/L	09/28/04	10:57	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	1.06	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-011

Date Sampled : 09/24/04 14:20 **Order #:** 757792 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	4.34	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	6.57	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	1.54	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : TB-092404-DJT

Date Sampled : 09/24/04 **Order #:** 757793 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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 - 119 %)	109	%
TOLUENE-D8	(88 - 124 %)	107	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	103	%

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/12/04
CAS Order # : 757782 - GW-092404-DJT-003
Client : Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04
Reported Units: MG/L
Run # : 109007

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
IRON	0.462	0.509	10	1.56	1.00	110	75 - 125
POTASSIUM	5.96	6.00	1	26.8	20.0	104	75 - 125
ZINC	0.616	0.620	1	1.12	0.500	102	75 - 125

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/12/04
CAS Order # : 757785 - GW-092404-DJT-005
Client : Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04
Reported Units: MG/L
Run # : 108703

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
TOTAL KJELDAHL NITROGEN	3.39	3.26	4	5.40	2.50	80	47 - 140

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/12/04
CAS Order # : 757786 - GW-092404-DJT-006
Client : Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04
Reported Units: MG/L
Run # : 108706

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
AMMONIA	2.77	2.82	2	3.63	1.00	86	64 - 122

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 10/12/04
CAS Order # : 757782 - GW-092404-DJT-003
Client : Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04
Reported Units: MG/L
Run # : 108714

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
NITRITE NITROGEN	0.0100 U	0.0100 U	NC	0.253	0.250	101	51 - 147

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2422948
Client: Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
IRON	0.100 U	1.06	1.00	106	80 - 120	108532	MG/L
POTASSIUM	2.00 U	20.6	20.0	103	80 - 120	108532	MG/L
ZINC	0.0200 U	0.539	0.500	108	80 - 120	108532	MG/L
IRON	0.100 U	1.04	1.00	104	80 - 120	108730	MG/L
ZINC	0.0200 U	0.543	0.500	109	80 - 120	108730	MG/L
POTASSIUM	2.00 U	21.2	20.0	106	80 - 120	108735	MG/L
IRON	0.100 U	1.11	1.00	111	80 - 120	109007	MG/L
POTASSIUM	2.00 U	21.4	20.0	107	80 - 120	109007	MG/L
ZINC	0.0200 U	0.565	0.500	113	80 - 120	109007	MG/L
NITRITE NITROGEN	0.0100 U	0.247	0.250	99	90 - 110	108463	MG/L

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2422948
Client: Conestoga Rovers & Associates
UCAR SEMIANNUAL -9/04

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
AMMONIA	0.0500 U	0.506	0.500	101	90 - 110	108489	MG/L
NITRITE NITROGEN	0.0100 U	0.252	0.250	101	90 - 110	108512	MG/L
TOTAL KJELDAHL NITROGEN	0.200 U	2.25	2.50	90	63 - 117	108703	MG/L
AMMONIA	0.0500 U	0.507	0.500	101	90 - 110	108706	MG/L
NITRITE NITROGEN	0.0100 U	0.238	0.250	95	90 - 110	108714	MG/L
NITRITE NITROGEN	0.0100 U	0.253	0.250	101	90 - 110	108737	MG/L

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

WATER

Spiked Order No. : 757782 Conestcga Rovers & Associates

Client ID: GW-092404-DJT-003

Test: 8260B TCL

Analytical Units: UG/L

Run Number : 109031

	SPIKE		MATRIX SPIKE		MATRIX SPIKE DUP.			QC LIMITS	
ANALYTE	ADDED	CONCENT. SAMPLE	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
BENZENE	50.0	0	48.0	96	51.0	102	6	30	70 - 130
CHLOROBENZENE	50.0	0	46.0	92	47.0	94	2	30	70 - 130
1,1-DICHLORCETHENE	50.0	0	50.0	100	53.0	106	6	30	70 - 130
TOLUENE	50.0	0	46.0	92	48.0	96	4	30	70 - 130
TRICHLOROETHENE	50.0	13.0	60.0	94	62.0	98	3	30	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 764562 ANALYTICAL RUN # : 109031

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 10/06/04			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	120	50 - 150
BENZENE	20.0	100	70 - 130
BROMODICHLOROMETHANE	20.0	104	70 - 130
BROMOFORM	20.0	86	70 - 130
BROMOMETHANE	20.0	72	50 - 150
2-BUTANONE (MEK)	20.0	108	50 - 150
CARBON DISULFIDE	20.0	83	70 - 130
CARBON TETRACHLORIDE	20.0	93	70 - 130
CHLOROBENZENE	20.0	96	70 - 130
CHLOROETHANE	20.0	109	70 - 130
CHLOROFORM	20.0	103	70 - 130
CHLOROMETHANE	20.0	107	70 - 130
DIBROMOCHLOROMETHANE	20.0	86	70 - 130
1,1-DICHLOROETHANE	20.0	100	70 - 130
1,2-DICHLOROETHANE	20.0	108	70 - 130
1,1-DICHLOROETHENE	20.0	103	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	92	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	92	70 - 130
1,2-DICHLOROPROPANE	20.0	96	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	94	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	97	70 - 130
ETHYLBENZENE	20.0	98	70 - 130
2-HEXANONE	20.0	118	70 - 130
METHYLENE CHLORIDE	20.0	96	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	115	70 - 130
STYRENE	20.0	91	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	97	70 - 130
TETRACHLOROETHENE	20.0	97	70 - 130
TOLUENE	20.0	96	70 - 130
1,1,1-TRICHLOROETHANE	20.0	97	70 - 130
1,1,2-TRICHLOROETHANE	20.0	94	70 - 130
TRICHLOROETHENE	20.0	101	70 - 130
VINYL CHLORIDE	20.0	101	70 - 130
O-XYLENE	20.0	90	70 - 130
M+P-XYLENE	40.0	94	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 764566 ANALYTICAL RUN # : 109031

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 10/06/04			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	117	50 - 150
BENZENE	20.0	101	70 - 130
BROMODICHLOROMETHANE	20.0	106	70 - 130
BROMOFORM	20.0	96	70 - 130
BROMOMETHANE	20.0	73	50 - 150
2-BUTANONE (MEK)	20.0	113	50 - 150
CARBON DISULFIDE	20.0	91	70 - 130
CARBON TETRACHLORIDE	20.0	99	70 - 130
CHLOROBENZENE	20.0	97	70 - 130
CHLOROETHANE	20.0	106	70 - 130
CHLOROFORM	20.0	103	70 - 130
CHLOROMETHANE	20.0	108	70 - 130
DIBROMOCHLOROMETHANE	20.0	90	70 - 130
1,1-DICHLOROETHANE	20.0	104	70 - 130
1,2-DICHLOROETHANE	20.0	109	70 - 130
1,1-DICHLOROETHENE	20.0	107	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	94	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	97	70 - 130
1,2-DICHLOROPROPANE	20.0	95	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	95	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	99	70 - 130
ETHYLBENZENE	20.0	100	70 - 130
2-HEXANONE	20.0	112	70 - 130
METHYLENE CHLORIDE	20.0	99	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	113	70 - 130
STYRENE	20.0	95	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	96	70 - 130
TETRACHLOROETHENE	20.0	99	70 - 130
TOLUENE	20.0	98	70 - 130
1,1,1-TRICHLOROETHANE	20.0	100	70 - 130
1,1,2-TRICHLOROETHANE	20.0	100	70 - 130
TRICHLOROETHENE	20.0	101	70 - 130
VINYL CHLORIDE	20.0	103	70 - 130
O-XYLENE	20.0	94	70 - 130
M+P-XYLENE	40.0	99	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 764561 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/05/04			
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 - 119 %)	104	%
TOLUENE-D8	(88 - 124 %)	104	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	104	%

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: cas/roch Contract: cra1

Lab Code: 10145 Case No.: R4-22948 SAS No.: _____ SDG No.: _____

Lab File ID (Standard): E0973.D Date Analyzed: 10/05/04

Instrument ID: ms#3 Time Analyzed: 21:32

GC Column: db-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS1 AREA	#	RT	#	IS2 AREA	#	RT	#	IS3 AREA	#	RT	#
	12 HOUR STD	200058		7.47		386075		8.65		344504		13.74	
	UPPER LIMIT	400116		6.97		772150		8.15		689008		13.24	
	LOWER LIMIT	100029		7.97		193038		9.15		172252		14.24	
	EPA SAMPLE NO.												
01	MET BLK1	199958		7.48		384595		8.65		346944		13.74	
02	003	199357		7.48		387415		8.65		343230		13.74	
03	007	201323		7.48		383501		8.65		331303		13.74	
04	008	194330		7.48		377419		8.65		339780		13.74	
05	003 MS	192229		7.48		374973		8.66		326118		13.74	
06	003 MSD	190021		7.48		368334		8.65		334468		13.74	
07	LCS1	202143		7.47		378955		8.64		337724		13.74	

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: cas/roch Contract: cra1

Lab Code: 10145 Case No.: R4-22948 SAS No.: _____ SDG No.: _____

Lab File ID (Standard): E0973.D Date Analyzed: 10/05/04

Instrument ID: ms#3 Time Analyzed: 21:32

GC Column: db-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	154506	18.20				
	UPPER LIMIT	309012	17.70				
	LOWER LIMIT	77253	18.70				
	EPA SAMPLE NO.						
01	MET BLK1	147687	18.20				
02	003	152250	18.20				
03	007	142654	18.20				
04	008	142736	18.19				
05	003 MS	151175	18.19				
06	003 MSD	150666	18.19				
07	LCS1	148805	18.19				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 764565 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
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 - 119 %)	104	%
TOLUENE-D8	(88 - 124 %)	104	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	105	%

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: cas/roch Contract: cra1

Lab Code: 10145 Case No.: R4-22948 SAS No.: _____ SDG No.: _____

Lab File ID (Standard): E0993.D Date Analyzed: 10/06/04

Instrument ID: ms#3 Time Analyzed: 08:18

GC Column: db-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS1 AREA #	IS1 RT #	IS2 AREA #	IS2 RT #	IS3 AREA #	IS3 RT #
	12 HOUR STD	197746	7.47	386018	8.65	340417	13.74
	UPPER LIMIT	395492	6.97	772036	8.15	680834	13.24
	LOWER LIMIT	98873	7.97	193009	9.15	170209	14.24
	EPA SAMPLE NO.						
01	LCS2	198857	7.48	384315	8.66	342788	13.74
02	MET BLK2	196757	7.47	379801	8.66	339095	13.75
03	TB	188800	7.49	373875	8.66	325831	13.75
04	004	185633	7.48	356356	8.66	322861	13.75
05	005	184656	7.48	361872	8.67	318194	13.75
06	006	181706	7.48	368578	8.67	316395	13.74

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: cas/roch Contract: cra1

Lab Code: 10145 Case No.: R4-22948 SAS No.: _____ SDG No.: _____

Lab File ID (Standard): E0993.D Date Analyzed: 10/06/04

Instrument ID: ms#3 Time Analyzed: 08:18

GC Column: db-624 ID: 0.20 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	156843	18.20				
	UPPER LIMIT	313686	17.70				
	LOWER LIMIT	78422	18.70				
	EPA SAMPLE NO.						
01	LCS2	150296	18.20				
02	MET BLK2	144731	18.19				
03	TB	140226	18.20				
04	004	137600	18.21				
05	005	135035	18.20				
06	006	134732	18.20				

IS1 = Pentafluorobenzene
IS2 = 1,4 - Difluorobenzene
IS3 = d5 - Chlorobenzene
IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

R24-22948

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
2055 Niagara Falls Blvd
Niagara Falls NY 14304

SHIPPED TO (Laboratory Name): Columbia

REFERENCE NUMBER: 55/3-02
UCAR Semi Annual GW Sampling

SAMPLER'S SIGNATURE: David Tyran PRINTED NAME: David Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: Metals	NH3 TKN	NO3	REMARKS
757776	9/17/04	1010	GW-091704-DJT-001	water	3	1	1	1	

TOTAL NUMBER OF CONTAINERS: 3

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① David Tyran	DATE: 9/17/04 TIME: 1100	RECEIVED BY: ① J Hyatt CHS	DATE: 9/17/04 TIME: 1220
RELINQUISHED BY: ② J Hyatt 1430	DATE: CHS TIME: 9/17/04	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: Courier

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: D. Tyran

RECEIVED FOR LABORATORY BY: [signature]
DATE: 9/17/04 TIME: 1430

No CRA 11046

1001 (D) APR 28/97(NF) REV. 0 (F-15)

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Cooler Receipt And Preservation Check Form

Project/Client CBA Submission Number R2422948

Cooler received on 9/17/04 by: NM 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) 9/17/04 (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:	8				
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: 9/17/04 1440

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

If out of Temperature, Client Approval to Run Samples OK, NM 09/17/04

Cooler Breakdown: Date: 9/20/04 by: NM

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				

Other Comments:

CHAIN OF CUSTODY RECORD R2422948

CONESTOGA-ROVERS & ASSOCIATES
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, N.Y. 14304 (716) 297-6150

SHIPPED TO (Laboratory Name): Columbia

REFERENCE NUMBER: 5513.02
UCAR
GW Sampling

SAMPLER'S SIGNATURE: David Tyran PRINTED NAME: David Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: Metals 6/6010B; NO3; NH3 TKN 4500;	REMARKS
57780	9/20/04	1515	GW-092004-DJT-002	water	3	1 1 1	

TOTAL NUMBER OF CONTAINERS: 3

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① David Tyran	DATE: 9/20/04 TIME: 1600	RECEIVED BY: ① J Hyatt CAS	DATE: 9/21/04 TIME: 1200
RELINQUISHED BY: ② J Hyatt CAS	DATE: 9/21/04 TIME: 1340	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: Courier WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: D. Tyran

RECEIVED FOR LABORATORY BY: DATE: 9/21/04 TIME: 1340

No N 3808

1001 (D) APR 28/97(NF) REV. 0 (F-15)

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Cooler Receipt And Preservation Check Form

Project/Client CBA Submission Number R0422948.

Cooler received on 9/21/04 by: [illegible] 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: 9/21/04 1345

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: 9/22/04 by: [illegible]

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	X				
2	H_2SO_4	X				
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				

Other Comments:

CHAIN OF CUSTODY RECORD R2427948

CONESTOGA-ROVERS & ASSOCIATES
2055 N. Ca Falls Blvd
Niagara Falls NY 14304

SHIPPED TO (Laboratory Name): Columbia

REFERENCE NUMBER: 5513-02
UCAR - Semi Annual GW Sampling

SAMPLER'S SIGNATURE: David Tyran PRINTED NAME: David Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: VOC	NO2	NH3 TKN	Metals	Dis. Metals	REMARKS
	9/24/04	915	GW-092404-DJT-003 ms/msd	Water	6	✓	✓	✓	✓		757782
		1000	GW-092404-DJT-004		6	✓	X	X	✓		757783
		1030	GW-092404-DJT-005		6	✓	X	X	✓		757785
		1045	GW-092404-DJT-006		6	✓	X	X	✓		757786
		1115	GW-092404-DJT-007		6	✓	X	X	X		757788
		1130	GW-092404-DJT-008		67	✓	✓	✓	✓	✓	757789
		1315	GW-092404-DJT-009		3		X	X	X		757790
		1400	GW-092404-DJT-010		3		X	X	X		757791
		1420	GW-092404-DJT-011		3		X	X	X		757792
			TB-092404-DJT	Lab Water	2	✓					757793

TOTAL NUMBER OF CONTAINERS: 48 HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① David Tyran	DATE: 9/24/04 TIME: 1600	RECEIVED BY: ①	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: J. Raby, D. Tyran

RECEIVED FOR LABORATORY BY: DATE: 9-25-04 TIME: 9:35

No CRA 10343

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Cooler Receipt And Preservation Check Form

Project/Client CRA Submission Number R2422948

Cooler received on 9-25-04 by: KE 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:	6°	6°			
	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: 9-25-04 @ 9:45

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: 9/27/04 by: CNR

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				
<2				

Other Comments:

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-006

Date Sampled : 09/24/04 10:45 **Order #:** 757786 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	2.77	MG/L	09/28/04	09:16	2.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	09/25/04	12:29	1.0
TOTAL KJELDAHL NITROGEN	351.2	0.200	3.21	MG/L	09/29/04	09:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-006

Date Sampled : 09/24/04 10:45 **Order #:** 757786 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.00	MG/L	10/05/04	1.0
POTASSIUM	6010B	2.00	16.2	MG/L	10/05/04	1.0
ZINC	6010B	0.0200	1.39	MG/L	10/05/04	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/12/04

Conestoga Rovers & Associates
Project Reference: UCAR SEMIANNUAL -9/04
Client Sample ID : GW-092404-DJT-006

Date Sampled : 09/24/04 10:45 **Order #:** 757786 **Sample Matrix:** WATER
Date Received: 09/25/04 **Submission #:** R2422948 **Analytical Run** 109031

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/06/04			
ANALYTICAL DILUTION: 2.00			
ACETONE	20	40 U	UG/L
BENZENE	5.0	10 U	UG/L
BROMODICHLOROMETHANE	5.0	10 U	UG/L
BROMOFORM	5.0	10 U	UG/L
BROMOMETHANE	5.0	10 U	UG/L
2-BUTANONE (MEK)	10	20 U	UG/L
CARBON DISULFIDE	10	20 U	UG/L
CARBON TETRACHLORIDE	5.0	10 U	UG/L
CHLOROBENZENE	5.0	10 U	UG/L
CHLOROETHANE	5.0	10 U	UG/L
CHLOROFORM	5.0	10 U	UG/L
CHLOROMETHANE	5.0	37	UG/L
DIBROMOCHLOROMETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHANE	5.0	10 U	UG/L
1,2-DICHLOROETHANE	5.0	10 U	UG/L
1,1-DICHLOROETHENE	5.0	10 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	390	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10 U	UG/L
1,2-DICHLOROPROPANE	5.0	10 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10 U	UG/L
ETHYLBENZENE	5.0	10 U	UG/L
2-HEXANONE	10	20 U	UG/L
METHYLENE CHLORIDE	5.0	10 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20 U	UG/L
STYRENE	5.0	10 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10 U	UG/L
TETRACHLOROETHENE	5.0	56	UG/L
TOLUENE	5.0	10 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10 U	UG/L
TRICHLOROETHENE	5.0	290	UG/L
VINYL CHLORIDE	5.0	79	UG/L
O-XYLENE	5.0	10 U	UG/L
M+P-XYLENE	5.0	10 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(83 - 119 %)	109	%
TOLUENE-D8	(88 - 124 %)	106	%
DIBROMOFLUOROMETHANE	(91 - 113 %)	104	%

Hydraulic Monitoring

Date 9/17/04 Crew DJT

Project # 5513

Well #	Time	w/L	Sounded Depth
MW 1	0806	9.24	20.80
2	0849	23.78	24.42
3	0826	5.69	15.03
BW 1	0800	12.30	26.00
2	0846	10.64	24.41
3	0813	8.50	23.23
4	0809	8.23	20.60
5	0819	4.78	25.52
6	0840	5.58	25.95
GW 8B	0832	9.82	29.51
9B	0856	11.89	31.72

Inst Control #

w/L Meter C03379

Calibration Log

9.17.04 DJT

Horiba water Quality checker was auto calibrated with single (manufacturer supplied) solution

PH 4.00 Cond. 4.49 Turb 0.0

9.24.04 DJT

Same as above

David J Tynan

(9)

MW-1

Date 9/17/04 Crew DJT
Project # 5513
Condition Good
Depth 2" 0.211
Initial w/L 9.24
Vol. Calc 21.1 - 9.24 = 11.86 x .16 = 1.9
Method Teflon Bailer

Purge Record

Time	Vol	PH	Cond	Temp°C	Turb
0937	1.9	6.21	1140	11.8	834

well dry @ 2.0 gallons

Initial w/Q Slightly cloudy Light Brown

Final w/Q Cloudy Black

Final w/L 20.75

Sample Record

Date 9/20/04
Crew DJT
Method Teflon Bailer

Vol/Analysis See pg 1 (B)

Sample Time 1515
Sample ID GW-092004-DJT-002

w/Q Clear, Colorless

PH	Cond	Temp°C	Turb
6.05	893	13.2	38

CofC # 3808

inst. Control #'s
w/L Meter C03379
Horiba C03350

David J Tyron

(6)

MW-2

Date 9/17/04 Crew DJT
Project # 5513
Condition Good
Depth 4" 0-24.65.
Initial w/l 23.78
Vol. Calc. 24.65 - 23.78 = 0.87 x .65 = 0.6
Method Teflon Bailer

Purge Record

Time	Vol	PH	Cond	Temp °C	Turb
0918	0.6	5.53	246	12.3	705

well Dry after 0.6 gallons

Initial w/Q Cloudy Black

Final w/Q Same

Final w/l 24.40

well Dry

NO Sample Taken

Inst. Control #'s
w/l Meter C03379
Horiba # C03550

David J Tyson

(8)

MW-3

Date 9/17/04 Crew DJT
Project 5513
Condition Good
Depth 2" 0-15.25
Initial w/L 5.69
Vol Calc 15.25 - 5.69 = 9.56 x .16 = 1.5
Method Peristaltic Pump

Purge Record

Time	Vol	PH	Cond	Temp °C	Turb
0955	1.5	7.18	548	12.5	43
0959	3.0	7.14	518	12.5	19
1003	4.5	7.08	493	12.3	44

Initial w/Q Clear, colorless

Final w/Q Same

Final w/L 14.31

Sample Record

Date 9/17/04
Crew DJT
Method Teflon Bailer

Vol/Analysis See pg 1 (5)

Sample Time 1010
Sample ID GW-091704-DJT-001

w/Q Same

PH	Cond	Temp °C	Turb
7.10	490	12.6	43

CofC # 11046

Inst. Cont'l #'s
w/L Meter CO3578
Horiba CO3550

David J Tyron

(10) BW-1

Date 9/24/04 Crew JR. DJT
Project # 5513.02
Condition Good
Depth 4"0-20.9 3" 20.9-35.9
Intial w/L 12.30
Vol. Calc. 20.9-12.3=8.6x.65=5.6 +5.6=11.2
Method whale Pump

Purge Record

Time	Vol	PH	Cond	Temp °C	Turb
0940	11.2	7.15	1850	11.4	88
0946	22.4	7.14	1810	10.6	43
0951	33 6	6 98	1790	10.4	26

Intial w/Q Cloudy, Brown

Final w/Q Clear, Colorless

Final w/L 12.6

Purge Record
Date 9.2404
crew JR, DJT
Method Teflon Bailer
Vol/Analysis See pg 1 (A)

Sample Time 1000
Sample ID GW-092404-DJT-004

w/Q Same

PH	Cond	Temp °C	Turb
7.03	~~1780~~	~~11.0~~	49

CofC# 10343

Inst. Control #'s
w/L Meter C03379
Horiba C03550

David J Tyron

(12) BW-2

Date 9-24-04 Crew JR, DJT
Project # 5513-02
Condition Good
Depth 4" 0-21.1 3" 21.1-37.1
Initial w/L 10.64
Vol. Calc. 21.1-10.64=10.46x.65=6.8+5.9=12.7
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp°C	Turb
1404	12.7	6.89	2630	12.3	86
1409	25.4	7.04	2580	11.6	61
1415	37.1	7.07	2560	12.4	50

Initial w/Q Clear, colorless

Final w/Q Same

Final w/L 11.1

Sample Record

Date 9-24-04
Crew DJT, JR
Method Teflon Bailer

Vol/Analysis See pg 1(B)

Sample Time 1420
Sample ID GW-092404-DJT-011

w/Q Same

PH	Cond	Temp°C	Turb
7.01	~~2500~~	11.6	47

CofC # 10343

Inst. Control #'s
w/L Meter C03379
Horiba C03550

David J Tyron

(14) BW-3

Date 9/24/04 Crew JR DJT
Project # 5523.02
Condition Good
Depth 4" 0-9.7 3" 9.7-23.45
Initial w/L 8.50
Vol. Calc 9.7-8.5=1.2x.65=0.8+5.1=5.9
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp°C	Turb
1048	5.9	7.05	1500	12.0	54
1050	11.8	7.00	1490	12-3	39
1052	17.7	7.03	1470	11.0	18

Initial w/O Clear, colorless

Final w/O Same

Final w/L 8.7

Sample Record

Date 9/24/04
Crew DJT, JR
Method Teflon Bailer
Vol/Analysis See pg 1 (A)

Sample Time 1115
Sample ID GW-092404-DJT-007

w/O Same

PH	Cond	Temp°C	Turb
7.11	1420	12-1	39

CofC# 10343

Inst. Control #'s
w/L Horiba C03379
Horiba C03550

David J Tyron

(16) BW-4

Date 9/24/04 Crew JR. DJT
Project 5513.02
Condition Good
Depth 4"0-13.9 3" 13.9-27.5
Initial w/L 8.23
Vol. Calc 13.9-8.23 = 5.67 x .65 = 3.7 + 4.6 = 8.3
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp °C	Turb
1017	8.3	7.08	1460	12.6	65
1021	16.6	6.82	1380	11.3	36
1027	24.9	6.92	1340	11.4	28

Initial w/Q Clear, Colorless

Final w/Q Same

Final w/L 8.4

DUP

Sample Record

Date 9/24/04
Crew JR. DJT
Method Teflon Bailer
Vol/Analysis See pg 1 (A) x 2

Sample Time 1030 (1045)
Sample ID GW-092404-DJT-005
Blind Dup GW-092404-DJT-006

w/Q Same

PH	Cond	Temp °C	Turb
6.95	1320	12.0	50

Cof C# 10343

Inst. Control #'s
w/L Meter C03379
Horiba C03550

David J Tynan

(18)

BW-5

Date 9/24/04 Crew JR, DJT

Project # 5513-02

Condition 13.3

Depth 4" 0-9.76 3" 9.33 0 - 28.2

Initial w/L 4.78

Vol. Calc. 13.3 - 4.78 = 8.52 x .65 = 5.5 + 5.5 = 11.0

Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp C°	Turb
1255	11	7.59	1260	12.2	105
1301	22	7.09	1200	11.6	61
1306	33	6.97	1190	10.9	36

Initial w/O Cloudy Brown

Final w/O Clear, colorless

Final w/L 5.0

Sample Record

Date 9/24/04

Crew DJT, JR

Method Teflon Bailer

Vol/Analysis See pg 1 (B)

Sample Time 1315

Sample ID GW-092404-DJT-009

w/O Same

PH	Cond	Temp	Turb
7.12	1118	12.4	49.3

CofC # 10343

Inst. Control #5

w/L Meter C03379

Horiba C03550

David J Tyron

(20) BGW-6

Date 9/24/04 Crew JR, DJT
Project # 5513-02
Condition Good
Depth 6"0-6.5 4"6.5-21.2 3"21.2-36.5
Initial w/L 15.58
Vol. Calc 21.2-15.58 = 5.62 x .65 - 3.6 + 5.7 = 9.3
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp °c	Turb
1120	9.3	6.81	1590	13.0	364
1125	18.6	6.65	1620	12.0	298
1132	27.9	6.91	1580	11.7	180

Initial w/Q Cloudy, Brown

Final w/Q Same

Final w/L 22.0

Sample Record

Date 9/24/04
Crew JR, DJT
Method Teflon Bailer
Vol/Analysis See pg 1 (A) + 1 diss. Metal

Sample Time 1130
Sample ID GW 092404-DJT-CC8

w/Q Same

PH	Cond	Temp °c	Turb
6.74	1490	13.0	270

CofC # 10343

Inst. Control #'s
w/L Meter C03379
Horiba C03550

David J Tajon

(22) GW 8B

Date 9/24/04 crew JR, DJT
Project # 5513.02
Condition Good
Depth 3"0-29.5
Initial w/L 9.82 .137
Vol. Calc. 29.5-9.82 = 19.68 x .05 = 7.3
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp°C	Turb
0854	7.3	6.24	1830	11.0	161
0857	14.6	6.42	1740	10.5	129
0901	21.9	5.84	1770	11.4	86
0905	29.2	6.42	1690	10.6	55

Initial w/Q Clear, Colorless

Final w/Q Same

Final w/L 19.0

MS/MSD

Sample Record

Date 9/24/04
crew DJT, JR
Method Teflon Bailer
Vol/Analysis See pg 1 (A) x 3

Sample Time 0915
Sample ID GW-092404-DJT-003

w/Q Same

PH	Cond	Temp°C	Turb
~~6.61~~	~~1660~~	11.1	40

CofC # 10343

Inst. Control #5
w/L Meter C03379
Horiba C03550

Dave Lyon

(24) GW 9B

Date 9-24-04 crew JR, DJT
Project # 5513-02
Condition Good
Depth 3" 0-31.7
Initial w/l 11.89
Vol. Calc. 31.7-11.89 = 19.81 x .37 = 7.3
Method Whale Pump

Purge Record

Time	Vol	PH	Cond	Temp °C	Turb
1338	7.3	7.09	2670	13.1	85
1341	14.6	6.90	2680	11.6	55
1344	21.9	7.13	2640	11.5	28

Initial w/o Slightly cloudy light Brown

Final w/o Clear, colorless

Final w/l 17.5

Sample Record

Date 9-24-04
Crew JR, DJT
Method Teflon Bailer

Vol/Analysis See pg 1(B)

Sample Time 1400
Sample ID GW-092404-DJT-010

w/o Same

PH	Cond	Temp °C	Turb
7.04	2660	11.9	40

CofC # 10343

Inst. Control #'s
w/l Meter C03379
Hor.ba C03550

Dave J Tyson