CONESTOGA-ROVERS
& ASSOCIATES

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FILE COPY

August 2, 2002

Reference No. 30409

Mr. Todd Wiener
MCDERMOTT WILL & EMERY
227 West Monroe Street
Suite 3100
Chicago, IL 60606-5096

PREVIOUSLY EMAILED

Dear Mr. Wiener:

Re: Summary of CRA Field Program - Rexnord

This letter provides a summary of CRA's field program during the oversight of USEPA, IEPA, and Weston's work at the Rexnord Facility.

BACKGROUND

In response to trichloroethylene (TCE) contamination in groundwater found at wells in Downer's Grove, the USEPA and IEPA developed a joint program to investigate potential sources in the Ellesworth Industrial Park area. An initial investigation was conducted in 2001 which involved the collection of groundwater samples from public roadways throughout the Ellesworth Industrial Park. The results in this study identified TCE in the overburden aquifer. The study is provided in a report prepared for the USEPA by Weston entitled: "Final - Preliminary Groundwater Investigation Report, Downers Grove Groundwater Site, dated May 2002.

The USEPA then developed a Phase II Workplan to investigate potential sources in the Ellesworth Industrial Park. This program represented a joint effort between USEPA and IEPA to install soil borings, geoprobes, and monitoring wells at several industrial sites in the Ellesworth Industrial Park, including the Rexnord facility. The Scope of Work proposed by the USEPA is provided in the report: Revised Phase II, Site Assessment Work Plan, Downers Grove Groundwater Investigation by Weston, dated April 2002.

CRA was retained to monitor the USEPA/IEPA field program conducted on Rexnord property in May and June 2002.

DRILLING LOCATIONS

The drilling locations were established in the field by Weston and USEPA with CRA oversight. Based on CRA's recommendation, Weston retained a private utility contractor in order to avoid

drilling through existing utilities. Ed Komerska, of Rexnord, inspected the drilling locations. The field program was coordinated in a manner not to disrupt Rexnord's plant operations.

INVESTIGATION DERIVED WASTE

As part of the field program, soil cuttings were generated. Per Rexnord's request, the soil cuttings for drilling activities generated on the Rexnord properties were placed in drums and located to the northwest side of the parking lot of Rexnord's filament building A total of 48 drums were placed on pallets, labeled, and shrink wrapped accordingly. Water generated as part of well development and sampling activities was managed by USEPA tested and discharged to the Downers Grove Sewage Treatment Plant. Personal Protective Equipment (PPE), such as gloves and Tyvek, were placed in trash bags during daily activities and managed by USEPA for off-Site disposal.

SOIL CONDITIONS

At each drilling location, the soil conditions were logged by Weston. This information will be provided in Weston's report as soil boring logs. The soil conditions on the Rexnord property generally consisted of clay near the surface and alternating layers of sand and clay throughout the overburden. Bedrock was typically found at a depth ranging from 50 to 65 ft. bgs.

GROUNDWATER LEVELS AND FLOW DIRECTION

Water levels were collected by Weston and the wells were surveyed by Weston. The water levels and groundwater flow direction will be prepared by Weston as part of their study.

SOIL SAMPLING

Table 1 provides a summary of samples collected by Weston/USEPA and IEPA and the requested analysis. Weston's report will provide the results of soil sampling.

Table 2 presents a summary of soil samples collected by CRA and the detected compounds. Lab reports for the soil samples are provided in Attachment A. As shown, no VOCs were detected in soil samples except for xylenes at SB-12. Soil samples collected from SB-12 had oil in the soil pores which is believed to be cutting oils.

GROUNDWATER SAMPLING

Table 3 presents a summary of groundwater samples collected at geoprobe locations, soil boring locations, and monitoring wells. CRA has received verbal results from Weston relative to VOC analysis for groundwater sampling locations. Final results will be provided in Weston's report.

Table 4 provides a summary of CRA's results from samples split with Weston's USEPA and also shows the preliminary results verbally provided by Weston. Laboratory results for CRA's samples are provided in Attachment A.

DATA VALIDATION

The data validation report is provided in Attachment B.

Should you have any questions, please do not hesitate to contact us.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Ronald Frehner, P.E.

RF/jla/2
Enc.

c.c.: Mark Bilut; McDermott, Will & Emery
Bob Rein; Invensys
Irwin Shur; Invensys
Kraig Tabor; Rexnord
Phil Harvey; CRA

TABLE 1

USEPA/WESTON/IEPA
SOIL SAMPLE COLLECTION

Location	*Date*	*Depth (ft. bgs)*	*Requested Analysis*				
			VOC	*Semi VOCs*	*PCB*	*T. Metals*	*TCLP*
SB-4	05/06/02	10-12	X				
		34-36	X				
SB-1	05/07/02	8-10	X				
		28-30	X				
SB-16	05/08/02	12-14	X				
		22-24	X				
BD-3I	05/09/02	8-10	X				
		28-30	X				
SB-13	05/10/02	0-2	X				
		16-18 (w/dup)	X				
SB-15	05/13/0	10-12	X				
		26-28	X				
SB-7	05/15/02	10-12	X				
		18-20	X				
SB-5	05/16/02	2-4	X				
		22-24	X				
		38-40	X				
SB-6	05/17/02	2-4	X				
		32-34	X				
BD-1	05/17/02	17.5-20	X				
		32.5-35	X				
BD-2	05/20/02	5-7.5	X				
		27.5-30	X				
BD-8	05/21/02	5-7.5	X				
		30-32.5 (w/dup)	X				
BD-8I	05/21/02	No Samples	--				
BD-6	05/22/02	17-20	X				
		35-37.5	X				

TABLE 1

USEPA/WESTON/IEPA
SOIL SAMPLE COLLECTION

Location	*Date*	*Depth (ft. bgs)*	*Requested Analysis*				
			VOC	*Semi VOCs*	*PCB*	*T. Metals*	*TCLP*
OV-7	05/22/02	18-20	X				
		28-30	X				
BD-6I	05/22/02	No Samples	--				
OV-5	05/23/02	14-16	X				
		26-28	X				
SB-14	05/24/02	6-8	X				
		22-24	X				
OV-1	05/29/02	4-6	X				
		28-30	X				
BD-2I	05/29/02	No Samples	--				
BD-1I	05/29/02	No Samples	--				
OV-9I	05/30/02	16-18	X				
		28-30	X				
SB-19	05/31/02	10-12	X				
		28-30	X				
		54-56	X				
SB-12	06/01/02	2-4	X	X	X	X	X[1]
		6-8	X	X	X	X	
		8-10	X	X	X	X	
		12-14	X	X	X	X	
OV-4	06/03/02	16-18	X				
		36-38	X				

Notes:
[1] TCLP taken of composite soil samples collect from the 2-14 ft. bgs intervals.

TABLE 2

CRA's SOIL SAMPLE RESULTS
REXNORD SITE - DOWNERS GROVE, ILLINOIS

Location	*Date*	*(ft. bgs)*	*Analytical Results VOCs (µg/Kg)*			*Xylene (µg/Kg)*	*All other VOCs (µg/Kg)*
			TCE	*TCA*	*PCE*		
SB-1	05/07/02	8-10	ND	ND	ND	ND	ND
SB-7	05/15/02	10-12	ND	ND	ND	ND	ND
BD-2	05/20/02	27.5-30	ND	ND	ND	ND	ND
OV-1	05/29/02	4-6	ND	ND	ND	ND	ND
SB-12	06/01/02	2-4	ND	ND	ND	130	ND
		8-10	ND	ND	ND	120	ND

Notes:
ND - Non-detect
See Attachment A for analytical report.

TABLE 3

USEPA/WESTON/IEPA
GROUNDWATER SAMPLE COLLECTION
REXNORD SITE - DOWNERS GROVE, ILLINOIS

Location	*Date*	*Requested Analysis VOC*[1]
BD-3I	05/24/02	X
SB-12 (soil boring)	06/01/02	X
OV-5I	06/10/02	X
BD-8I	06/10/02	X
BD-8D	06/10/02	X
OV-7I	06/10/02	X
OV-4I	06/10/02	X
GP-5 (Geoprobe)	06/12/02	X
BD-2I	06/12/02	X
BD-2D	06/12/02	X
OV-9I	06/12/02	X
BD-6I	06/12/02	X
BD-6D	06/12/02	X
BD-1D	06/12/02	X
BD-1I	06/13/02	X
OV-1I	06/13/02	X
SB-15	06/20/02	X
Irrigation and fire well	06/13/02	X

Notes:
[1] VOC - Volatile organic compounds

TABLE 4

CRA's GROUNDWATER SAMPLE RESULTS
REXNORD SITE - DOWNERS GROVE, ILLINOIS

			Analytical Results (µg/L)				
Location	*Well Type*	*Date*	*TCE*	*TCA*	*PCE*	*1,2-DCE*	*Acetone*
Monitoring Wells							
BD-3I	Overburden	05/24/02	ND	ND	ND	ND	ND
OV-5I	Overburden	06/10/02	57	46	1.4	ND	ND
BD-8I	Overburden	06/10/02	ND	ND	ND	ND	ND
BD-8D	Bedrock	06/10/02	ND	ND	ND	ND	ND
OV-7I	Overburden	06/10/02	20	ND	3.9	2.6	ND
OV-4I	Overburden	06/10/02	ND	ND	ND	ND	ND
BD-2I	Overburden	06/12/02	ND	ND	2.5	ND	ND
BD-2D	Bedrock	06/12/02	ND	ND	13	ND	ND
OV-9I	Overburden	06/12/02	ND	ND	ND	ND	ND
BD-6I	Overburden	06/12/02	ND	ND	ND	ND	ND
BD-6D	Bedrock	06/12/02	ND	ND	ND	ND	ND
BD-1D	Bedrock	06/12/02	ND	ND	ND	ND	ND
BD-1I	Overburden	06/13/02	ND	1.5	ND	ND	ND
OV-1I	Overburden	06/13/02	33	ND	34	ND	ND
SB-15	Overburden	06/20/02	ND	ND	ND	ND	5.2
Other							
SB-12	Soil Boring	06/01/02	ND	ND	ND	ND	11J
GP-5	Geoprobe	06/12/02	1.1	ND	ND	ND	ND
Irrigation and fire well	Bedrock	06/13/02	ND	ND	ND	ND	ND

Notes:
ND - Non-detect
See Attachment A for analytical reports.
J - Result is estimated due to high LCS recovery
TCA - 1,1,1-Trichloroethane
TCE - Trichloroethylene
PCE - Tetrachloroethylene
1,2-DCE - 1,2-Dichloroethylene (total)

ATTACHMENT A

LABORATORY REPORTS

30409

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 209576

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 05/16/2002

RECEIVED
MAY 21 2002
CRA, INC.

Signature

Date 5/17/02

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 209576
VOA DATA:

1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.

2. The Method Blank had all target compounds below the reporting limits.

3. All of the spike recoveries for the five control compounds were within the in-house generated QC limits in the LCS samples.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The soil sample was prepared using the high level Method 5035 and analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding continuing calibration standard.

8. The soil sample was screened prior to GC/MS analysis. The soil sample was analyzed using the high-level soil method. The results and reporting limits were adjusted to account for the sample weights, dilutions, the analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

5-16-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 05/16/2002

Job Number.: 209576
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
209576-1	S-050702-PK-001	Soil	05/07/2002	09:20	05/08/2002	10:25

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LABORATORY TEST RESULTS

Job Number: 209576

Date: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-050702-PK-001
Date Sampled.....: 05/07/2002
Time Sampled.....: 09:20
Sample Matrix.....: Soil

SB-1 (8-10')

Laboratory Sample ID: 209576-1
Date Received.....: 05/08/2002
Time Received.....: 10:25

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Vinyl chloride, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Bromomethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Chloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Carbon disulfide, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Acetone, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Methylene chloride, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Chloroform, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Benzene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Trichloroethene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Bromodichloromethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Toluene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Tetrachloroethene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	2-Hexanone, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Dibromochloromethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Chlorobenzene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Ethylbenzene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Styrene, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Bromoform, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
	Xylenes (total), High/Med Level*	ND	120	ug/Kg	05/16/02	jdn
Method	% Solids Determination					
	% Solids, Solid	81.1	0.10	%	05/08/02	clb
	% Moisture, Solid	18.9	0.10	%	05/08/02	clb

In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 209576

Date: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 209576-1 Client ID: S-050702-PK-001 Date Recvd: 05/08/2002 Sample Date: 05/07/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	51231		05/08/2002	2013	
5030A	5030 Purge & Trap of Methanol Extract	1	52090		05/16/2002	0036	
5035	5035 Preservation High (Methanol)	1	51236		05/08/2002	2118	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	52142	51236 -52090	05/16/2002	0036	1.0000

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STL Chicago

SURROGATE RECOVERIES REPORT

Job Number.: 209576 Report Date.: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 51236
Batch(s).....: 52142 Test Matrix...: High/Med Level Equipment Code: GCL9

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			05/16/2002	75	89	90	95
209576- 1		S-050702-PK-001	05/16/2002	73	85	88	90

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 52090
Batch(s).....: 52142 Test Matrix...: High/Med Level Equipment Code: GCL9

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			05/15/2002	87	95	95	101
MB			05/15/2002	73	90	90	96

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

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QUALITY CONTROL RESULTS

Job Number.: 209576

Report Date.: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
EB2	Extraction Blank 2	-9576/9578	51236		05/16/2002	0133

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 52142

Analyst...: jdn

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209576

Report Date.: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V02E15DSB	52090		05/15/2002	2223

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 52142

Analyst...: jdn

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2831.790		2500.000	100.000	U 113	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2889.215		2500.000	100.000	U 116	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2217.655		2500.000	100.000	U 89	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2730.235		2500.000	100.000	U 109	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2202.010		2500.000	100.000	U 88	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	3063.680		2500.000	100.000	U 123	%	21-124	
Acetone, High/Med Level	ug/Kg	1666.545		2500.000	100.000	U 67	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	2244.155		2500.000	100.000	U 90	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	2358.070		2500.000	100.000	U 94	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	2796.575		2500.000	100.000	U 112	%	40-125	
Chloroform, High/Med Level	ug/Kg	2352.490		2500.000	100.000	U 94	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2218.495		2500.000	100.000	U 89	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2538.605		2500.000	100.000	U 102	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4682.190		5000.000	100.000	U 94	%	60-139	
Benzene, High/Med Level	ug/Kg	2720.040		2500.000	100.000	U 109	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2194.890		2500.000	100.000	U 88	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2889.035		2500.000	100.000	U 116	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2805.470		2500.000	100.000	U 112	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2562.355		2500.000	100.000	U 102	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2765.685		2600.000	100.000	U 106	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	2930.390		2500.000	100.000	U 117	%	54-119	
Toluene, High/Med Level	ug/Kg	2518.190		2500.000	100.000	U 101	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2542.915		2400.000	100.000	U 106	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2464.135		2500.000	100.000	U 99	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2785.635		2500.000	100.000	U 111	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	2921.455		2500.000	100.000	U 117	%	50-116	*
Dibromochloromethane, High/Med Level	ug/Kg	3058.165		2500.000	100.000	U 122	%	70-119	*
Chlorobenzene, High/Med Level	ug/Kg	2854.495		2500.000	100.000	U 114	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2710.800		2500.000	100.000	U 108	%	78-128	
Styrene, High/Med Level	ug/Kg	2758.925		2500.000	100.000	U 110	%	80-129	
Bromoform, High/Med Level	ug/Kg	2937.090		2500.000	100.000	U 117	%	70-123	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2877.045		2500.000	100.000	U 115	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	7957.950		7500.000	100.000	U 106	%	77-131	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209576

Report Date.: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 52142

Analyst...: jdn

MB	Method Blank		52090		05/15/2002	2127

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209576

Report Date.: 05/16/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 51231
Equipment Code....:

Analyst...: clb
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	0.1000 U								05/08/2002	2013

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/16/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/16/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/16/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL, University Park

209576

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Pat Klick PRINTED NAME: Pat Klick

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	PARAMETERS: Temperature	REMARKS
1	5/7/02	9:20	S-050702-PK-001	Soil	2	✓		
			Temperature Blank	Water			✓	
TOTAL NUMBER OF CONTAINERS								

RELINQUISHED BY: ① Pat Klick	DATE: 5/8/02 TIME: 10:25	RECEIVED BY: ② [signature]	DATE: 5/8/02 TIME: 10:25
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Lab Courier AIR BILL No.

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

SAMPLE TEAM: Klick

RECEIVED FOR LABORATORY BY: [signature]
DATE: 5/8/02 TIME: 1115

08022

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Pat Klick PRINTED NAME: Pat Klick

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	VOC	Temperature	REMARKS
	5/7/02	9:20	S-050702-PK-001	Soil	2	✓		
			Temperature Blank	Water	1		✓	
			SB-1					
			8-10'					

TOTAL NUMBER OF CONTAINERS 3

RELINQUISHED BY: ① Pat Klick	DATE: 5/8/02 TIME: 10:25	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Lab Courier AIR BILL No.

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

SAMPLE TEAM: Klick

RECEIVED FOR LABORATORY BY:

DATE: TIME:

08022

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 209731

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 05/28/2002

RECEIVED
MAY 30 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

5/28/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 209731
VOA DATA:

1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.

2. The Method Blank had all target compounds below the reporting limits.

3. All of the spike recoveries for the five control compounds were within the in-house generated QC limits in the LCS samples.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The soil sample was prepared using the high level Method 5035 and analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The soil sample was screened prior to GC/MS analysis. The soil sample was analyzed using the high-level soil method. The results and reporting limits were adjusted to account for the sample weights, dilutions, the analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

5-28-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 05/28/2002

Job Number.: 209731
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
209731-1	S-051502-DW-002	Soil	05/15/2002	14:00	05/16/2002	10:10

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 209731

Date: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-051502-DW-002
Date Sampled.....: 05/15/2002
Time Sampled.....: 14:00
Sample Matrix.....: Soil

SB-7
(10-12')

Laboratory Sample ID: 209731-1
Date Received.....: 05/16/2002
Time Received.....: 10:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Vinyl chloride, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Bromomethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Chloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Carbon disulfide, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Acetone, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Methylene chloride, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Chloroform, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Benzene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Trichloroethene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Bromodichloromethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Toluene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Tetrachloroethene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	2-Hexanone, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Dibromochloromethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Chlorobenzene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Ethylbenzene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Styrene, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Bromoform, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
	Xylenes (total), High/Med Level*	ND	160	ug/Kg	05/26/02	jdn
Method	% Solids Determination					
	% Solids, Solid	84.8	0.10	%		rlc
	% Moisture, Solid	15.2	0.10	%		rlc

In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 209731

Date: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 209731-1 Client ID: S-051502-DW-002 Date Recvd: 05/16/2002 Sample Date: 05/15/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	52172				
5030A	5030 Purge & Trap of Methanol Extract	1	52893		05/26/2002	1658	
5035	5035 Preservation High (Methanol)	1	52173		05/17/2002	0102	
8260B	Volatile Organics	1	52976	52173 -52893	05/26/2002	1658	1.0000

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SURROGATE RECOVERIES REPORT

Job Number.: 209731

Report Date.: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics
Batch(s).....: 52976

Method Code...: 8260B Prep Batch....: 52173
Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			05/26/2002	103	111	115	97
209731-	1	S-051502-DW-002	05/26/2002	105	111	118	98

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics
Batch(s).....: 52976

Method Code...: 8260B Prep Batch....: 52893
Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			05/26/2002	103	109	117	99
MB			05/26/2002	103	107	113	98

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

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QUALITY CONTROL RESULTS

Job Number.: 209731

Report Date.: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
EB2	Extraction Blank 2	209731	52173		05/26/2002	1623

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 52976

Analyst...: jdn

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	100.000	U							
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209731

Report Date.: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 52976

Analyst...: jdn

LCS	Laboratory Control Sample	V02E26DSB	52893		05/26/2002	1542

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2676.785		2500.000	100.000	U 107	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2874.195		2500.000	100.000	U 115	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2728.085		2500.000	100.000	U 109	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2776.660		2500.000	100.000	U 111	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2006.885		2500.000	100.000	U 80	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	2143.275		2500.000	100.000	U 86	%	21-124	
Acetone, High/Med Level	ug/Kg	2398.410		2500.000	100.000	U 96	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	1766.980		2500.000	100.000	U 71	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	2039.885		2500.000	100.000	U 82	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1895.145		2500.000	100.000	U 76	%	40-125	
Chloroform, High/Med Level	ug/Kg	2206.925		2500.000	100.000	U 88	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2116.220		2500.000	100.000	U 85	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2459.180		2500.000	100.000	U 98	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4105.240		5000.000	100.000	U 82	%	60-139	
Benzene, High/Med Level	ug/Kg	2196.215		2500.000	100.000	U 88	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2227.320		2500.000	100.000	U 89	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2306.185		2500.000	100.000	U 92	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2249.640		2500.000	100.000	U 90	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2600.030		2500.000	100.000	U 104	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2060.160		2600.000	100.000	U 79	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	1940.950		2500.000	100.000	U 78	%	54-119	
Toluene, High/Med Level	ug/Kg	2037.810		2500.000	100.000	U 82	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2008.025		2400.000	100.000	U 84	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2095.660		2500.000	100.000	U 84	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2461.535		2500.000	100.000	U 98	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	2008.015		2500.000	100.000	U 80	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	2915.170		2500.000	100.000	U 117	%	70-119	
Chlorobenzene, High/Med Level	ug/Kg	2164.235		2500.000	100.000	U 87	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2023.585		2500.000	100.000	U 81	%	78-128	
Styrene, High/Med Level	ug/Kg	2102.595		2500.000	100.000	U 84	%	80-129	
Bromoform, High/Med Level	ug/Kg	3023.290		2500.000	100.000	U 121	%	70-123	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2510.660		2500.000	100.000	U 100	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6195.400		7500.000	100.000	U 83	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209731

Report Date.: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		52893		05/26/2002	1507

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 52976

Analyst...: jdn

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U						
Vinyl chloride, High/Med Level	ug/Kg	100.000	U						
Bromomethane, High/Med Level	ug/Kg	100.000	U						
Chloroethane, High/Med Level	ug/Kg	100.000	U						
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U						
Carbon disulfide, High/Med Level	ug/Kg	100.000	U						
Acetone, High/Med Level	ug/Kg	100.000	U						
Methylene chloride, High/Med Level	ug/Kg	100.000	U						
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U						
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U						
Chloroform, High/Med Level	ug/Kg	100.000	U						
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U						
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U						
Benzene, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U						
Trichloroethene, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U						
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U						
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U						
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U						
Toluene, High/Med Level	ug/Kg	100.000	U						
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U						
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U						
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U						
2-Hexanone, High/Med Level	ug/Kg	100.000	U						
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U						
Chlorobenzene, High/Med Level	ug/Kg	100.000	U						
Ethylbenzene, High/Med Level	ug/Kg	100.000	U						
Styrene, High/Med Level	ug/Kg	100.000	U						
Bromoform, High/Med Level	ug/Kg	100.000	U						
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U						
Xylenes (total), High/Med Level	ug/Kg	100.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

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QUALITY CONTROL RESULTS

Job Number.: 209731

Report Date.: 05/28/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 52172
Equipment Code....:

Analyst...: rtc
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	0.1000 U									

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/28/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H *MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a* negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/28/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/28/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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209731

CRA

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

Pg. 1 of 1

REFERENCE NUMBER: # 30409

PROJECT NAME: Rexnord (Downer's Grove, IL)

SAMPLER'S SIGNATURE: Dan Nelson

PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	PARAMETERS: moisture	REMARKS
1	5/15/02	1400	S-051502-DN-002	SOIL	2	1	1	
			Temp. Blank		1			Any questions, please contact Grant Anderson @ 651-639-0913.
			TOTAL NUMBER OF CONTAINERS					

RELINQUISHED BY:	DATE: / TIME:	RECEIVED BY:	DATE: / TIME:
① Daniel A. Nelson	5/16/02 0800	②	
②		③	
③		④	

METHOD OF SHIPMENT: Lab Pick-up.

AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY: [signature]

DATE: 5/16/02 TIME: 9:07

08046

1C01(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

pg. 1 of 1

REFERENCE NUMBER: # 302109

PROJECT NAME: Rexnord (Downer's Grove, IL)

SAMPLER'S SIGNATURE: Dan Nelson

PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	PARAMETERS: moisture									REMARKS
	5/15/02	1400	S-051502-DN-002 (SB-7) 10-12'	Soil	2	1	1									
			Temp. Blank		1											Any questions, please contact Grant Anderson @ 651-639-0913.
			TOTAL NUMBER OF CONTAINERS													

RELINQUISHED BY: ① Dan Nelson	DATE: 5/16/02 TIME: 0800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Lab Pick-up.

AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY:

DATE: 5/16/02 TIME: 9:07

08046

1C01(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 209854

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/04/2002

RECEIVED
JUN 07 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

6/4/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 209854
VOA DATA:

1. All sample analyses were performed within the required hold time from the date of collection.

2. Bromomethane was detected in the instrument blank. Bromomethane was detected in the associated sample. All other method blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all five-controlled spike recoveries within the in-house generated QC limits.

4. *Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.*

5. All surrogate recoveries were within QC limits.

6. The soil sample was prepared using the Method 5035 high-level Methanol procedure. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All samples had internal standard areas within limits and retention times within the SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The soil results and reporting limits were adjusted to account for the sample weights, analytical procedure and were reported on a dry weight basis.

Jennifer S. O'Gorman
Jennifer S. O'Gorman
GC/MS Dept.

6-3-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 06/04/2002

Job Number.: 209854
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
209854-1	S-052002-DN-003	Soil	05/20/2002	17:00	05/22/2002	08:00

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 209854 Date: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-052002-DN-003
Date Sampled.....: 05/20/2002
Time Sampled.....: 17:00
Sample Matrix.....: Soil

BD-2
(27.5-30')

Laboratory Sample ID: 209854-1
Date Received.....: 05/22/2002
Time Received.....: 08:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Vinyl chloride, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Bromomethane, High/Med Level*	390	91	ug/Kg	06/01/02	jso
	Chloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,1-Dichloroethene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Carbon disulfide, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Acetone, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Methylene chloride, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,1-Dichloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	2-Butanone (MEK), High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Chloroform, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,1,1-Trichloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Carbon tetrachloride, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,2-Dichloroethene (total), High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Benzene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,2-Dichloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Trichloroethene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,2-Dichloropropane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Bromodichloromethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	cis-1,3-Dichloropropene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Toluene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	trans-1,3-Dichloropropene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,1,2-Trichloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Tetrachloroethene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	2-Hexanone, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Dibromochloromethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Chlorobenzene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Ethylbenzene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Styrene, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Bromoform, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	91	ug/Kg	06/01/02	jso
	Xylenes (total), High/Med Level*	ND	91	ug/Kg	06/01/02	jso
Method	% Solids Determination					
	% Solids, Solid	86.4	0.10	%	05/22/02	rlc
	% Moisture, Solid	13.6	0.10	%	05/22/02	rlc

* In Description = Dry Wgt.

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L A B O R A T O R Y C H R O N I C L E

Job Number: 209854 Date: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 209854-1 Client ID: S-052002-DN-003 Date Recvd: 05/22/2002 Sample Date: 05/20/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	52634		05/22/2002	0000	
5030A	5030 Purge & Trap of Methanol Extract	1	53432		06/01/2002	0228	
5035	5035 Preservation High (Methanol)	1	52640		05/23/2002	0105	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	53482	52640 -53432	06/01/2002	0228	1.0000

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SURROGATE RECOVERIES REPORT

Job Number.: 209854 Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 52640
Batch(s).....: 53482 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			06/01/2002	100	108	115	95
209854- 1		S-052002-DN-003	06/01/2002	106	106	121	94

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53432
Batch(s).....: 53482 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCD			06/01/2002	101	105	115	92
LCS			05/31/2002	100	106	112	91
MB			05/31/2002	102	107	116	95

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
EB2	Extraction Blank 2		52640		06/01/2002	0033

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53482

Analyst...: jso

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	340.730								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53482

Analyst...: jso

LCD	Laboratory Control Sample Duplicate	V02E31DSB	53432		06/01/2002	0712

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2425.690	2525.255	2500.000	100.000	U	97 4	% R	55-129 30	
Vinyl chloride, High/Med Level	ug/Kg	2734.835	2696.180	2500.000	100.000	U	109 1	% R	61-135 30	
Bromomethane, High/Med Level	ug/Kg	2995.760	2580.900	2500.000	348.604		120 15	% R	36-164 30	
Chloroethane, High/Med Level	ug/Kg	2711.115	2657.915	2500.000	100.000	U	108 2	% R	33-207 30	
1,1-Dichloroethene, High/Med Level	ug/Kg	2637.225	2567.500	2500.000	100.000	U	105 3	% R	44-143 30	
Carbon disulfide, High/Med Level	ug/Kg	2963.650	2948.370	2500.000	100.000	U	119 1	% R	21-124 30	
Acetone, High/Med Level	ug/Kg	3245.280	2622.165	2500.000	100.000	U	130 21	% R	34-143 30	
Methylene chloride, High/Med Level	ug/Kg	2195.430	2184.250	2500.000	100.000	U	88 1	% R	57-129 30	
1,1-Dichloroethane, High/Med Level	ug/Kg	2366.050	2320.535	2500.000	100.000	U	95 2	% R	68-119 30	
2-Butanone (MEK), High/Med Level	ug/Kg	2447.890	2460.750	2500.000	100.000	U	98 1	% R	40-125 30	
Chloroform, High/Med Level	ug/Kg	2538.780	2459.790	2500.000	100.000	U	102 3	% R	61-129 30	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2488.690	2399.045	2500.000	100.000	U	100 4	% R	69-133 30	
Carbon tetrachloride, High/Med Level	ug/Kg	2829.795	2782.895	2500.000	100.000	U	113 2	% R	59-127 30	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4849.350	4739.475	5000.000	100.000	U	97 2	% R	60-139 30	
Benzene, High/Med Level	ug/Kg	2451.745	2470.185	2500.000	100.000	U	98 1	% R	67-122 30	
1,2-Dichloroethane, High/Med Level	ug/Kg	2428.405	2492.235	2500.000	100.000	U	97 3	% R	64-115 30	
Trichloroethene, High/Med Level	ug/Kg	2579.120	2543.725	2500.000	100.000	U	103 1	% R	70-123 30	
1,2-Dichloropropane, High/Med Level	ug/Kg	2410.645	2405.440	2500.000	100.000	U	96 0	% R	70-122 30	
Bromodichloromethane, High/Med Level	ug/Kg	2837.775	2876.390	2500.000	100.000	U	114 1	% R	66-128 30	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2192.335	2234.830	2600.000	100.000	U	84 2	% R	68-123 30	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	1958.505	2074.120	2500.000	100.000	U	78 6	% R	54-119 30	
Toluene, High/Med Level	ug/Kg	2238.110	2223.120	2500.000	100.000	U	90 1	% R	72-123 30	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2152.725	2190.280	2400.000	100.000	U	90 2	% R	60-115 30	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2345.880	2319.970	2500.000	100.000	U	94 1	% R	67-133 30	
Tetrachloroethene, High/Med Level	ug/Kg	2752.545	2745.560	2500.000	100.000	U	110 0	% R	75-125 30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCD	Laboratory Control Sample Duplicate	V02E31DSB	53432		06/01/2002	0712

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
2-Hexanone, High/Med Level	ug/Kg	2109.020	2328.680	2500.000	100.000	U 84	%	50-116	
						10	R	30	
Dibromochloromethane, High/Med Level	ug/Kg	3161.980	3256.020	2500.000	100.000	U 126	%	70-119	*
						3	R	30	
Chlorobenzene, High/Med Level	ug/Kg	2358.880	2363.430	2500.000	100.000	U 94	%	80-125	
						0	R	30	
Ethylbenzene, High/Med Level	ug/Kg	2226.770	2213.990	2500.000	100.000	U 89	%	78-128	
						1	R	30	
Styrene, High/Med Level	ug/Kg	2271.585	2295.990	2500.000	100.000	U 91	%	80-129	
						1	R	30	
Bromoform, High/Med Level	ug/Kg	3349.725	3486.330	2500.000	100.000	U 134	%	70-123	*
						4	R	30	
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2719.745	2703.445	2500.000	100.000	U 109	%	70-126	
						1	R	30	
Xylenes (total), High/Med Level	ug/Kg	6686.200	6681.850	7500.000	100.000	U 89	%	77-131	
						0	R	30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53482

Analyst...: jso

LCS	Laboratory Control Sample	V02E31DSB	53432		05/31/2002	2248

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2525.255		2500.000	100.000	U 101	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2696.180		2500.000	100.000	U 108	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2580.900		2500.000	348.604	103	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2657.915		2500.000	100.000	U 106	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2567.500		2500.000	100.000	U 103	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	2948.370		2500.000	100.000	U 118	%	21-124	
Acetone, High/Med Level	ug/Kg	2622.165		2500.000	100.000	U 105	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	2184.250		2500.000	100.000	U 87	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	2320.535		2500.000	100.000	U 93	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	2460.750		2500.000	100.000	U 98	%	40-125	
Chloroform, High/Med Level	ug/Kg	2459.790		2500.000	100.000	U 98	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2399.045		2500.000	100.000	U 96	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2782.895		2500.000	100.000	U 111	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4739.475		5000.000	100.000	U 95	%	60-139	
Benzene, High/Med Level	ug/Kg	2470.185		2500.000	100.000	U 99	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2492.235		2500.000	100.000	U 100	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2543.725		2500.000	100.000	U 102	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2405.440		2500.000	100.000	U 96	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2876.390		2500.000	100.000	U 115	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2234.830		2600.000	100.000	U 86	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	2074.120		2500.000	100.000	U 83	%	54-119	
Toluene, High/Med Level	ug/Kg	2223.120		2500.000	100.000	U 89	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2190.280		2400.000	100.000	U 91	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2319.970		2500.000	100.000	U 93	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2745.560		2500.000	100.000	U 110	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	2328.680		2500.000	100.000	U 93	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	3256.020		2500.000	100.000	U 130	%	70-119	*
Chlorobenzene, High/Med Level	ug/Kg	2363.430		2500.000	100.000	U 95	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2213.990		2500.000	100.000	U 89	%	78-128	
Styrene, High/Med Level	ug/Kg	2295.990		2500.000	100.000	U 92	%	80-129	
Bromoform, High/Med Level	ug/Kg	3486.330		2500.000	100.000	U 139	%	70-123	*
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2703.445		2500.000	100.000	U 108	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6681.850		7500.000	100.000	U 89	%	77-131	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53482

Analyst...: jso

MB	Method Blank		53432		05/31/2002	2213

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	348.604								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209854

Report Date.: 06/04/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 52634
Equipment Code....:

Analyst...: rlc
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	0.1000 U								05/22/2002	0000

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/04/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/04/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/04/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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209854

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

REFERENCE NUMBER: #30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Daniel A Nelson PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Voc	PARAMETERS: moisture	REMARKS
1	5/20/02	1700	S-052002-DN-003	Soil	2	1	1	
			Temp. Blank		1			

TOTAL NUMBER OF CONTAINERS 3

RELINQUISHED BY: ① Daniel Nelson	DATE: 5/21/02 TIME:	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: STL Pick up AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY:
DATE: 05/21/02 TIME: 1425

08045

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

REFERENCE NUMBER: # 30409

PROJECT NAME: Rexford

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	PARAMETERS: Moisture	REMARKS
	5/20/02	1700	S-052002-DN-003 (BD-2)	SOIL	2	1	1	(27.5'-30' Depth)
			Temp. Blank		1			

TOTAL NUMBER OF CONTAINERS 3

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
① [signature]	5/21/02		②		
②			③		
③			④		

METHOD OF SHIPMENT: STL Pick up AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY: [signature]
DATE: 05/21/02 TIME: 1425

08045

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30407

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 209980

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/07/2002

RECEIVED
JUN 11 2002
CRA, INC.

Signature

Date 6/7/02

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 209980
VOA DATA:

1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.

2. Bromomethane was detected in the method blank and the extraction blank for batch53519. Bromomethane was also detected in the sample at the same amount.

3. All of the spike recoveries for the five control compounds were within the in-house generated QC limits in the LCS samples.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The soil sample was prepared using the high level Method 5035 and analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The soil sample was screened prior to GC/MS analysis. The soil sample was analyzed using the high-level soil method. The results and reporting limits were adjusted to account for the sample weights, dilutions, the analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

6-7-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 06/07/2002

Job Number.: 209980
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
209980-1	S-052902-DN-004	Soil	05/29/2002	13:45	05/30/2002	09:35

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LABORATORY TEST RESULTS

Job Number: 209980

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-052902-DN-004
Date Sampled.....: 05/29/2002
Time Sampled.....: 13:45
Sample Matrix.....: Soil

OV-1

Laboratory Sample ID: 209980-1
Date Received.....: 05/30/2002
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Vinyl chloride, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Bromomethane, High/Med Level*	430	130	ug/Kg	06/03/02	jdn
	Chloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Carbon disulfide, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Acetone, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Methylene chloride, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Chloroform, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Benzene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Trichloroethene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Bromodichloromethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Toluene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Tetrachloroethene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	2-Hexanone, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Dibromochloromethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Chlorobenzene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Ethylbenzene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Styrene, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Bromoform, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
	Xylenes (total), High/Med Level*	ND	130	ug/Kg	06/03/02	jdn
Method	% Solids Determination					
	% Solids, Solid	74.1	0.10	%	05/30/02	rlc
	% Moisture, Solid	25.9	0.10	%	05/30/02	rlc

In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 209980 Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 209980-1 Client ID: S-052902-DN-004 Date Recvd: 05/30/2002 Sample Date: 05/29/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	53296		05/30/2002	2300	
5030A	5030 Purge & Trap of Methanol Extract	1	53519		06/03/2002	1958	
5035	5035 Preservation High (Methanol)	1	53410		05/31/2002	0015	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	53814	53410 -53519	06/03/2002	1958	1.0000

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SURROGATE RECOVERIES REPORT

Job Number.: 209980 Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53410
Batch(s).....: 53814 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			06/03/2002	108	112	123	99
209980- 1		S-052902-DN-004	06/03/2002	105	110	120	97

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53519
Batch(s).....: 53814 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/03/2002	104	111	118	95
MB			06/03/2002	93	103	110	91

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

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QUALITY CONTROL RESULTS

Job Number.: 209980 | Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates | PROJECT: PROJECT 30409 | ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics
Equipment Code....: GCL7
Batch.....: 53814
Analyst...: jdn

EB2	Extraction Blank 2	209980	53410		06/03/2002	1811

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	305.027								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 209980

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53814

Analyst...: jdn

LCS	Laboratory Control Sample	V02F03DSB	53519		06/03/2002	1511

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2681.560		2500.000	100.000	U 107	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2909.960		2500.000	100.000	U 116	%	61-135	
Bromomethane, High/Med Level	ug/Kg	3414.030		2500.000	343.605	137	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2868.865		2500.000	100.000	U 115	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2540.040		2500.000	100.000	U 102	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	2763.120		2500.000	100.000	U 111	%	21-124	
Acetone, High/Med Level	ug/Kg	3782.315		2500.000	100.000	U 151	%	34-143	*
Methylene chloride, High/Med Level	ug/Kg	2204.885		2500.000	100.000	U 88	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	2184.770		2500.000	100.000	U 87	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	3161.325		2500.000	100.000	U 126	%	40-125	*
Chloroform, High/Med Level	ug/Kg	2534.895		2500.000	100.000	U 101	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2468.245		2500.000	100.000	U 99	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2904.850		2500.000	100.000	U 116	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4894.670		5000.000	100.000	U 98	%	60-139	
Benzene, High/Med Level	ug/Kg	2511.280		2500.000	100.000	U 100	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2697.945		2500.000	100.000	U 108	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2700.350		2500.000	100.000	U 108	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2541.305		2500.000	100.000	U 102	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	3045.315		2500.000	100.000	U 122	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	2434.420		2600.000	100.000	U 94	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	2684.420		2500.000	100.000	U 107	%	54-119	
Toluene, High/Med Level	ug/Kg	2328.090		2500.000	100.000	U 93	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	2500.175		2400.000	100.000	U 104	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2646.215		2500.000	100.000	U 106	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2826.565		2500.000	100.000	U 113	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	2825.420		2500.000	100.000	U 113	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	3539.580		2500.000	100.000	U 142	%	70-119	*
Chlorobenzene, High/Med Level	ug/Kg	2476.985		2500.000	100.000	U 99	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2249.200		2500.000	100.000	U 90	%	78-128	
Styrene, High/Med Level	ug/Kg	2299.470		2500.000	100.000	U 92	%	80-129	
Bromoform, High/Med Level	ug/Kg	3997.935		2500.000	100.000	U 160	%	70-123	*
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	3018.440		2500.000	100.000	U 121	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6752.000		7500.000	100.000	U 90	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209980

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53814

Analyst...: jdn

MB	Method Blank		53519		06/03/2002	1343

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U						
Vinyl chloride, High/Med Level	ug/Kg	100.000	U						
Bromomethane, High/Med Level	ug/Kg	343.605							B
Chloroethane, High/Med Level	ug/Kg	100.000	U						
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U						
Carbon disulfide, High/Med Level	ug/Kg	100.000	U						
Acetone, High/Med Level	ug/Kg	100.000	U						
Methylene chloride, High/Med Level	ug/Kg	100.000	U						
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U						
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U						
Chloroform, High/Med Level	ug/Kg	100.000	U						
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U						
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U						
Benzene, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U						
Trichloroethene, High/Med Level	ug/Kg	100.000	U						
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U						
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U						
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U						
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U						
Toluene, High/Med Level	ug/Kg	100.000	U						
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U						
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U						
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U						
2-Hexanone, High/Med Level	ug/Kg	100.000	U						
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U						
Chlorobenzene, High/Med Level	ug/Kg	100.000	U						
Ethylbenzene, High/Med Level	ug/Kg	100.000	U						
Styrene, High/Med Level	ug/Kg	100.000	U						
Bromoform, High/Med Level	ug/Kg	100.000	U						
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U						
Xylenes (total), High/Med Level	ug/Kg	100.000	U						

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209980

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 53296
Equipment Code....:

Analyst...: ric
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	0.1000 U								05/30/2002	2300

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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209980

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

REFERENCE NUMBER: #30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Dan Nelson PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	VOC	moisture	REMARKS
1	5/29/02	1345	S-052902-DN-004	Soil	2	X	X	
			Temp. Blank		1			

TOTAL NUMBER OF CONTAINERS 3

RELINQUISHED BY: ① Dan Nelson	DATE: 5/30/02 TIME: 0700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY: [signature]
DATE: 05/30/02 TIME: 0935

08023

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): STL - University Park

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: #30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Dan Nelson PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	PARAMETERS: moisture	REMARKS
	5/29/02	1345	S-052902-DN-004 (OV-1)	Soil	2	X	X	Depth (4'-6' Interval)
			Temp. Blank		1			
			TOTAL NUMBER OF CONTAINERS		3			

RELINQUISHED BY: ① Dan Nelson	DATE: 5/30/02 TIME: 0700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY:
DATE: 05/30/02 TIME: 0935

08023

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 210023

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/07/2002

RECEIVED
JUN 11 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

6/7/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 210023
VOA DATA:

1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.

2. Bromomethane was detected in the method blank and the extraction blank for batch 53519. Bromomethane was not detected in the associated samples. All other Method Blank target compounds were below reporting limits.

3. All of the spike recoveries for the five control compounds were within the in-house generated QC limits in the LCS samples.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The water sample was prepared using method 5030B. The soil samples were prepared using the high level Method 5035. All of the samples were analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The water sample was analyzed using a 25ml purge volume. The soil samples were screened prior to GC/MS analysis. The soil samples were analyzed using the high-level soil method. The results and reporting limits were adjusted to account for the sample weights, dilutions, the analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

6-7-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 06/07/2002

Job Number.: 210023
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210023-1	S-060102-DN-005	Soil	06/01/2002	10:50	06/03/2002	09:20
210023-2	S-060102-DN-006	Soil	06/01/2002	11:05	06/03/2002	09:20
210023-3	GW-060102-DN-002	Water	06/01/2002	11:55	06/03/2002	09:20

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LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-060102-DN-005
Date Sampled.....: 06/01/2002
Time Sampled.....: 10:50
Sample Matrix.....: Soil

SB-12 (2-4' bgs)

Laboratory Sample ID: 210023-1
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Vinyl chloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromomethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Carbon disulfide, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Acetone, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Methylene chloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chloroform, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Benzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Trichloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromodichloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Toluene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Tetrachloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	2-Hexanone, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Dibromochloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chlorobenzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Ethylbenzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Styrene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromoform, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Xylenes (total), High/Med Level*	130	94	ug/Kg	06/05/02	jdn
Method	% Solids Determination					
	% Solids, Solid	87.5	0.10	%	06/03/02	clb
	% Moisture, Solid	12.5	0.10	%	06/03/02	clb

In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-060102-DN-006
Date Sampled.....: 06/01/2002
Time Sampled.....: 11:05
Sample Matrix.....: Soil

SB-12 (8-10' bgs)

Laboratory Sample ID: 210023-2
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Vinyl chloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromomethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Carbon disulfide, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Acetone, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Methylene chloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chloroform, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Benzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Trichloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromodichloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Toluene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Tetrachloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	2-Hexanone, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Dibromochloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chlorobenzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Ethylbenzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Styrene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromoform, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Xylenes (total), High/Med Level*	120	96	ug/Kg	06/05/02	jdn
Method	% Solids Determination					
	% Solids, Solid	87.0	0.10	%	06/03/02	clb
	% Moisture, Solid	13.0	0.10	%	06/03/02	clb

In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-060102-DN-002
Date Sampled.....: 06/01/2002
Time Sampled.....: 11:55
Sample Matrix.....: Water

SB-12
(W/L @ 9.25' bgs)

Laboratory Sample ID: 210023-3
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/05/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/05/02	jdn
	Bromomethane	ND	1.0	ug/L	06/05/02	jdn
	Chloroethane	ND	1.0	ug/L	06/05/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/05/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/05/02	jdn
	Acetone	11	5.0	ug/L	06/05/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/05/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/05/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/05/02	jdn
	Chloroform	ND	1.0	ug/L	06/05/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/05/02	jdn
	Benzene	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/05/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/05/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/05/02	jdn
	Toluene	ND	1.0	ug/L	06/05/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/05/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/05/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/05/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/05/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/05/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/05/02	jdn
	Styrene	ND	1.0	ug/L	06/05/02	jdn
	Bromoform	ND	1.0	ug/L	06/05/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/05/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/05/02	jdn

In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 210023-1 Client ID: S-060102-DN-005 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	53515		06/03/2002	2040	
5030A	5030 Purge & Trap of Methanol Extract	1	53742		06/05/2002	1539	
5035	5035 Preservation High (Methanol)	1	53731		06/03/2002	0955	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	53888	53731 -53742	06/05/2002	1539	1.0000

Lab ID: 210023-2 Client ID: S-060102-DN-006 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	53515		06/03/2002	2040	
5030A	5030 Purge & Trap of Methanol Extract	1	53742		06/05/2002	1614	
5035	5035 Preservation High (Methanol)	1	53731		06/03/2002	0957	
8260B	Volatile Organics	1	53888	53731 -53742	06/05/2002	1614	1.0000

Lab ID: 210023-3 Client ID: GW-060102-DN-002 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	53746		06/05/2002	1200	
8260B	Volatile Organics	1	53889	53746	06/05/2002	1200	1.00000

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SEVERN TRENT SERVICES

STL Chicago

SURROGATE RECOVERIES REPORT

Job Number.: 210023 Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53731
Batch(s).....: 53888 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			06/05/2002	98	105	116	95
210023- 1		S-060102-DN-005	06/05/2002	102	103	117	96
210023- 2		S-060102-DN-006	06/05/2002	96	102	112	96

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53742
Batch(s).....: 53888 Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/05/2002	94	102	108	90
MB			06/05/2002	95	106	112	93

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 53746
Batch(s).....: 53889 Test Matrix...: Water Equipment Code: GCL2

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/05/2002	95	97	108	103
MB			06/05/2002	90	91	103	98
210023- 3		GW-060102-DN-002	06/05/2002	95	96	105	101

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
EB2	Extraction Blank 2	210023-21	53731		06/05/2002	1503

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53888

Analyst...: jdn

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	387.872								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53888

Analyst...: jdn

LCS	Laboratory Control Sample	V02F05DSB	53742		06/05/2002	1339

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2310.915		2500.000	100.000 U	92	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2486.245		2500.000	100.000 U	99	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2451.015		2500.000	380.138	98	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2428.425		2500.000	100.000 U	97	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2010.705		2500.000	100.000 U	80	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	2097.105		2500.000	100.000 U	84	%	21-124	
Acetone, High/Med Level	ug/Kg	1938.195		2500.000	100.000 U	78	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	1829.835		2500.000	100.000 U	73	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	1928.525		2500.000	100.000 U	77	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1791.190		2500.000	100.000 U	72	%	40-125	
Chloroform, High/Med Level	ug/Kg	2107.445		2500.000	100.000 U	84	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2098.700		2500.000	100.000 U	84	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2487.860		2500.000	100.000 U	100	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4005.365		5000.000	100.000 U	80	%	60-139	
Benzene, High/Med Level	ug/Kg	2134.470		2500.000	100.000 U	85	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2173.610		2500.000	100.000 U	87	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2312.600		2500.000	100.000 U	93	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2130.305		2500.000	100.000 U	85	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2559.330		2500.000	100.000 U	102	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	1984.865		2600.000	100.000 U	76	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	1882.880		2500.000	100.000 U	75	%	54-119	
Toluene, High/Med Level	ug/Kg	2028.710		2500.000	100.000 U	81	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	1982.875		2400.000	100.000 U	83	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2071.285		2500.000	100.000 U	83	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2570.755		2500.000	100.000 U	103	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	1982.545		2500.000	100.000 U	79	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	3055.705		2500.000	100.000 U	122	%	70-119	*
Chlorobenzene, High/Med Level	ug/Kg	2206.985		2500.000	100.000 U	88	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2075.885		2500.000	100.000 U	83	%	78-128	
Styrene, High/Med Level	ug/Kg	2134.125		2500.000	100.000 U	85	%	80-129	
Bromoform, High/Med Level	ug/Kg	3334.175		2500.000	100.000 U	133	%	70-123	*
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2619.405		2500.000	100.000 U	105	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6140.900		7500.000	100.000 U	82	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		53742		06/05/2002	1228

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53888

Analyst...: jdn

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	380.138								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL2
Batch.....: 53889

Analyst...: jdn

LCS	Laboratory Control Sample	V02F05DSA	53746		06/05/2002	1054

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
hloromethane	ug/L	9.036		10.000	1.000 U	90	%	56-129	
inyl chloride	ug/L	11.615		10.000	1.000 U	116	%	67-137	
romomethane	ug/L	14.785		10.000	1.000 U	148	%	51-152	
Chloroethane	ug/L	11.006		10.000	1.000 U	110	%	68-135	
1,1-Dichloroethene	ug/L	8.639		10.000	1.000 U	86	%	54-127	
arbon disulfide	ug/L	8.403		10.000	5.000 U	84	%	29-136	
cetone	ug/L	19.315		10.000	5.000 U	193	%	43-150	*
Methylene chloride	ug/L	8.708		10.000	1.000 U	87	%	52-133	
1,1-Dichloroethane	ug/L	8.949		10.000	1.000 U	89	%	69-127	
-Butanone (MEK)	ug/L	9.728		10.000	5.000 U	97	%	54-145	
hloroform	ug/L	9.175		10.000	1.000 U	92	%	74-128	
,1,1-Trichloroethane	ug/L	8.915		10.000	1.000 U	89	%	66-129	
Carbon tetrachloride	ug/L	8.734		10.000	1.000 U	87	%	66-136	
1,2-Dichloroethene (total)	ug/L	18.229		20.000	1.000 U	91	%	72-121	
enzene	ug/L	9.054		10.000	1.000 U	91	%	74-116	
,2-Dichloroethane	ug/L	8.795		10.000	1.000 U	88	%	63-133	
richloroethene	ug/L	9.394		10.000	1.000 U	94	%	70-120	
1,2-Dichloropropane	ug/L	9.448		10.000	1.000 U	94	%	71-132	
romodichloromethane	ug/L	9.143		10.000	1.000 U	91	%	76-129	
is-1,3-Dichloropropene	ug/L	8.735		10.400	1.000 U	84	%	75-123	
-Methyl-2-pentanone (MIBK)	ug/L	9.551		10.000	5.000 U	96	%	66-147	
Toluene	ug/L	9.312		10.000	1.000 U	93	%	71-122	
trans-1,3-Dichloropropene	ug/L	8.517		9.600	1.000 U	89	%	76-126	
,1,2-Trichloroethane	ug/L	9.507		10.000	1.000 U	95	%	69-138	
etrachloroethene	ug/L	9.373		10.000	1.000 U	94	%	69-128	
2-Hexanone	ug/L	9.104		10.000	5.000 U	91	%	70-144	
Dibromochloromethane	ug/L	9.857		10.000	1.000 U	99	%	74-137	
hlorobenzene	ug/L	9.395		10.000	1.000 U	94	%	76-124	
thylbenzene	ug/L	9.089		10.000	1.000 U	91	%	74-121	
tyrene	ug/L	9.748		10.000	1.000 U	97	%	80-125	
Bromoform	ug/L	10.019		10.000	1.000 U	100	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.382		10.000	1.000 U	94	%	72-127	
ylenes (total)	ug/L	28.785		30.000	1.000 U	96	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL2
Batch.....: 53889

Analyst...: jdn

MB	Method Blank		53746		06/05/2002	1017

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U							
Vinyl chloride	ug/L	1.000	U							
Bromomethane	ug/L	1.000	U							
Chloroethane	ug/L	1.000	U							
1,1-Dichloroethene	ug/L	1.000	U							
Carbon disulfide	ug/L	5.000	U							
Acetone	ug/L	5.000	U							
Methylene chloride	ug/L	1.000	U							
1,1-Dichloroethane	ug/L	1.000	U							
2-Butanone (MEK)	ug/L	5.000	U							
Chloroform	ug/L	1.000	U							
1,1,1-Trichloroethane	ug/L	1.000	U							
Carbon tetrachloride	ug/L	1.000	U							
1,2-Dichloroethene (total)	ug/L	1.000	U							
Benzene	ug/L	1.000	U							
1,2-Dichloroethane	ug/L	1.000	U							
Trichloroethene	ug/L	1.000	U							
1,2-Dichloropropane	ug/L	1.000	U							
Bromodichloromethane	ug/L	1.000	U							
cis-1,3-Dichloropropene	ug/L	1.000	U							
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U							
Toluene	ug/L	1.000	U							
trans-1,3-Dichloropropene	ug/L	1.000	U							
1,1,2-Trichloroethane	ug/L	1.000	U							
Tetrachloroethene	ug/L	1.000	U							
2-Hexanone	ug/L	5.000	U							
Dibromochloromethane	ug/L	1.000	U							
Chlorobenzene	ug/L	1.000	U							
Ethylbenzene	ug/L	1.000	U							
Styrene	ug/L	1.000	U							
Bromoform	ug/L	1.000	U							
1,1,2,2-Tetrachloroethane	ug/L	1.000	U							
Xylenes (total)	ug/L	1.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023 Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Moisture

Batch.....: 53515
Equipment Code....:

Analyst...: clb
Test Code.: %MOIST

C	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
B			%	100.0000								06/03/2002	2040

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 53515
Equipment Code....:

Analyst...: clb
Test Code.: %SOLID

C	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
B			%	0.1000 U								06/03/2002	2040

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U. Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ *ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower* control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C. Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F *AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)*

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D. Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	*Post Digestion Spike (GFAA Samples - See Note 1 below)*
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group *Lab ID An 8 number unique laboratory identification*
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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210023

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL

REFERENCE NUMBER: #30409

PROJECT NAME: Rexford #[redacted]

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	VOC-S-Soil	Moisture	VOC-Water								REMARKS
1	6/1/02	1050	S-060102-DN-005	Soil	2	X	X									
2	↓	1105	-006	Soil	2	X	X									
3	↓	1155	GW-060102-DN-002	Water	3			X								
			Temp Blank		1											
			TOTAL NUMBER OF CONTAINERS		8											

RELINQUISHED BY: ① [signature]	DATE: 6/1/02 TIME: 1300	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed-Ex. P.O.D. AIR BILL No.

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

SAMPLE TEAM: Nelson, D

RECEIVED FOR LABORATORY BY: [signature]
DATE: 6-3-02 TIME: 0940

08020

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL

REFERENCE NUMBER: # 30409

PROJECT NAME: Rexhard [redacted]

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC's - Soil	Moisture	VOC - water								REMARKS
	6/1/02	1050	S-060102-DN-005 SB-12	Soil	2	X	X									(2' to 4' bgs)
	↓	1105	-006 SB-12	Soil	2	X	X									(8' to 10' bgs)
		1155	GW-060102-DN-002 SB-12	Water	3			X								w/L @ 9.25 bgs
			Temp blank		1											
			TOTAL NUMBER OF CONTAINERS		8											

RELINQUISHED BY: ① [signature]	DATE: 6/1/02 TIME: 1300	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed-Ex P.O.N. AIR BILL No.

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

SAMPLE TEAM: Nolan, D.

RECEIVED FOR LABORATORY BY:

DATE: TIME:

08020

1CG1(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30407

SEVERN TRENT SERVICES

STL Chicago

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 209946

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/05/2002

RECEIVED
JUN 10 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

6/6/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Assoc.
Project 30409
Job Number 209946
VOA DATA:

1. The water samples were properly preserved and analyzed within the 14-day hold time for preserved samples.

2. All Method Blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all five-controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The samples were prepared using Method 5030B and analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. All samples were analyzed using a 25mL purge volume.

John Nagel
GC/MS VOA Dept.

6-5-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 06/05/2002

Job Number.: 209946
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
209946-1	GW-052402-DN-001	Water	05/24/2002	12:00	05/24/2002	17:00

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LABORATORY TEST RESULTS

Job Number: 209946

Date: 06/05/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-052402-DN-001
Date Sampled.....: 05/24/2002
Time Sampled.....: 12:00
Sample Matrix.....: Water

BD-3I

Laboratory Sample ID: 209946-1
Date Received.....: 05/24/2002
Time Received.....: 17:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/04/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/04/02	jdn
	Bromomethane	ND	1.0	ug/L	06/04/02	jdn
	Chloroethane	ND	1.0	ug/L	06/04/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/04/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/04/02	jdn
	Acetone	ND	5.0	ug/L	06/04/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/04/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/04/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/04/02	jdn
	Chloroform	ND	1.0	ug/L	06/04/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/04/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/04/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/04/02	jdn
	Benzene	ND	1.0	ug/L	06/04/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/04/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/04/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/04/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/04/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/04/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/04/02	jdn
	Toluene	ND	1.0	ug/L	06/04/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/04/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/04/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/04/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/04/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/04/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/04/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/04/02	jdn
	Styrene	ND	1.0	ug/L	06/04/02	jdn
	Bromoform	ND	1.0	ug/L	06/04/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/04/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/04/02	jdn

In Description = Dry Wgt.

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SEVERN TRENT SERVICES

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LABORATORY CHRONICLE

Job Number: 209946 Date: 06/05/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 209946-1 Client ID: GW-052402-DN-001 Date Recvd: 05/24/2002 Sample Date: 05/24/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	53637		06/04/2002	2008	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	53710	53637	06/04/2002	2008	1.00000

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STL Chicago

SURROGATE RECOVERIES REPORT

Job Number.: 209946

Report Date.: 06/05/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics
Batch(s).....: 53710

Method Code...: 8260B
Test Matrix...: Water

Prep Batch....: 53637
Equipment Code: GCL9

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/04/2002	97	99	95	102
MB			06/04/2002	90	95	95	98
209946-	1	GW-052402-DN-001	06/04/2002	87	98	92	100

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209946

Report Date.: 06/05/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 53710

Analyst...: jdn

LCS	Laboratory Control Sample	V02F04DSA	53637		06/04/2002	1533

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	12.451		10.000	1.000 U	125	%	56-129	
Vinyl chloride	ug/L	13.093		10.000	1.000 U	131	%	67-137	
Bromomethane	ug/L	10.857		10.000	1.000 U	109	%	51-152	
Chloroethane	ug/L	9.779		10.000	1.000 U	98	%	68-135	
1,1-Dichloroethene	ug/L	8.172		10.000	1.000 U	82	%	54-127	
Carbon disulfide	ug/L	9.568		10.000	5.000 U	96	%	29-136	
Acetone	ug/L	14.230		10.000	5.000 U	142	%	43-150	
Methylene chloride	ug/L	8.457		10.000	1.000 U	85	%	52-133	
1,1-Dichloroethane	ug/L	8.760		10.000	1.000 U	88	%	69-127	
2-Butanone (MEK)	ug/L	9.245		10.000	5.000 U	92	%	54-145	
Chloroform	ug/L	9.068		10.000	1.000 U	91	%	74-128	
1,1,1-Trichloroethane	ug/L	9.106		10.000	1.000 U	91	%	66-129	
Carbon tetrachloride	ug/L	9.498		10.000	1.000 U	95	%	66-136	
1,2-Dichloroethene (total)	ug/L	17.442		20.000	1.000 U	87	%	72-121	
Benzene	ug/L	9.221		10.000	1.000 U	92	%	74-116	
1,2-Dichloroethane	ug/L	9.466		10.000	1.000 U	95	%	63-133	
Trichloroethene	ug/L	9.360		10.000	1.000 U	94	%	70-120	
1,2-Dichloropropane	ug/L	9.783		10.000	1.000 U	98	%	71-132	
Bromodichloromethane	ug/L	9.496		10.000	1.000 U	95	%	76-129	
cis-1,3-Dichloropropene	ug/L	9.147		10.400	1.000 U	88	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	10.593		10.000	5.000 U	106	%	66-147	
Toluene	ug/L	9.568		10.000	1.000 U	96	%	71-122	
trans-1,3-Dichloropropene	ug/L	9.151		9.600	1.000 U	95	%	76-126	
1,1,2-Trichloroethane	ug/L	9.173		10.000	1.000 U	92	%	69-138	
Tetrachloroethene	ug/L	9.245		10.000	1.000 U	92	%	69-128	
2-Hexanone	ug/L	9.265		10.000	5.000 U	93	%	70-144	
Dibromochloromethane	ug/L	9.351		10.000	1.000 U	94	%	74-137	
Chlorobenzene	ug/L	9.193		10.000	1.000 U	92	%	76-124	
Ethylbenzene	ug/L	9.094		10.000	1.000 U	91	%	74-121	
Styrene	ug/L	9.450		10.000	1.000 U	94	%	80-125	
Bromoform	ug/L	9.435		10.000	1.000 U	94	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	8.962		10.000	1.000 U	90	%	72-127	
Xylenes (total)	ug/L	30.302		30.000	1.000 U	101	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 209946

Report Date.: 06/05/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL9
Batch.....: 53710

Analyst...: jdn

MB	Method Blank		53637		06/04/2002	1411

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U						
Vinyl chloride	ug/L	1.000	U						
Bromomethane	ug/L	1.000	U						
Chloroethane	ug/L	1.000	U						
1,1-Dichloroethene	ug/L	1.000	U						
Carbon disulfide	ug/L	5.000	U						
Acetone	ug/L	5.000	U						
Methylene chloride	ug/L	1.000	U						
1,1-Dichloroethane	ug/L	1.000	U						
2-Butanone (MEK)	ug/L	5.000	U						
Chloroform •	ug/L	1.000	U						
1,1,1-Trichloroethane	ug/L	1.000	U						
Carbon tetrachloride	ug/L	1.000	U						
1,2-Dichloroethene (total)	ug/L	1.000	U						
Benzene	ug/L	1.000	U						
1,2-Dichloroethane	ug/L	1.000	U						
Trichloroethene	ug/L	1.000	U						
1,2-Dichloropropane	ug/L	1.000	U						
Bromodichloromethane	ug/L	1.000	U						
cis-1,3-Dichloropropene	ug/L	1.000	U						
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U						
Toluene	ug/L	1.000	U						
trans-1,3-Dichloropropene	ug/L	1.000	U						
1,1,2-Trichloroethane	ug/L	1.000	U						
Tetrachloroethene	ug/L	1.000	U						
2-Hexanone	ug/L	5.000	U						
Dibromochloromethane	ug/L	1.000	U						
Chlorobenzene	ug/L	1.000	U						
Ethylbenzene	ug/L	1.000	U						
Styrene	ug/L	1.000	U						
Bromoform	ug/L	1.000	U						
1,1,2,2-Tetrachloroethane	ug/L	1.000	U						
Xylenes (total)	ug/L	1.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/05/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/05/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	*Continuing Calibration Verification*
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	*Initial calibration*
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	*Matrix Spike Duplicate*
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/05/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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209946

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL

REFERENCE NUMBER: #30409

PROJECT NAME: Pentford

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC's										REMARKS
1	5/24/02		GW-052402-DN-001	Water	3	X										
			Temp. Blank		1											

TOTAL NUMBER OF CONTAINERS 4

RELINQUISHED BY: ① [signature]	DATE: 5/24/02 TIME: 1400	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: STL AIR BILL No.

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

SAMPLE TEAM: Nelson, R

RECEIVED FOR LABORATORY BY: [signature]
DATE: 5-25-02 TIME: 0800

29°C

08044

1C01(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL

REFERENCE NUMBER: #30409

PROJECT NAME: Portland

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC's	REMARKS
	5/24/02		GW-052402-DW-001 (BD-3I)	Water	3	X	
			Temp. Blank		1		
			TOTAL NUMBER OF CONTAINERS		4		

RELINQUISHED BY: ① [signature]	DATE: 5/24/02 TIME: 14:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: STL AIR BILL No.

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

SAMPLE TEAM: Nelson, D.

RECEIVED FOR LABORATORY BY:

DATE: TIME:

08044

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 210214

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/18/2002

RECEIVED
JUN 21 2002
CRA, INC.

Nancy S. McDonald
Signature

6/18/02
Date

for Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Assoc.
Project 30409
Job Number 210214
VOA DATA:

1. The water samples were properly preserved and analyzed within the 14-day hold time for preserved samples.

2. All Method Blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all five-controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The samples were prepared using Method 5030B and analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. All samples were analyzed as low level waters using a 25mL purge volume. A secondary dilution was necessary on sample 001 at a 1/2 dilution in order to accurately quantitate target compounds. All concentrations and reporting limits have been adjusted to reflect the sample dilutions performed.

John Nagel
GC/MS VOA Dept.

6-18-02
Date

SEVERN TRENT SERVICES

SAMPLE INFORMATION
Date: 06/18/2002

Job Number.: 210214
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210214-1	GW-061002-PK-003	Water	06/10/2002	09:20	06/12/2002	11:00
210214-2	GW-061002-PK-004	Water	06/10/2002	10:05	06/12/2002	11:00
210214-3	GW-061002-PK-005	Water	06/10/2002	10:50	06/12/2002	11:00
210214-4	GW-061002-PK-006	Water	06/10/2002	12:05	06/12/2002	11:00
210214-5	GW-061002-PK-007	Water	06/10/2002	13:55	06/12/2002	11:00
210214-6	Trip Blank	Water	06/12/2002	09:02	06/12/2002	11:00
210214-7	GW-061202-KD-008	Water	06/12/2002	09:02	06/12/2002	11:00
210214-8	GW-061202-KD-009	Water	06/12/2002	09:15	06/12/2002	11:00
210214-9	GW-061202-KD-010	Water	06/12/2002	10:05	06/12/2002	11:00

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061002-PK-003
Date Sampled.....: 06/10/2002
Time Sampled.....: 09:20
Sample Matrix.....: Water

OV-5 (I)

Laboratory Sample ID: 210214-1
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	46	2.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	57	2.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	1.4	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061002-PK-004
Date Sampled.....: 06/10/2002
Time Sampled.....: 10:05
Sample Matrix.....: Water

BD-8I

Laboratory Sample ID: 210214-2
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061002-PK-005
Date Sampled.....: 06/10/2002
Time Sampled.....: 10:50
Sample Matrix.....: Water

BD-8D

Laboratory Sample ID: 210214-3
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061002-PK-006
Date Sampled.....: 06/10/2002
Time Sampled.....: 12:05
Sample Matrix.....: Water

OV-7 (I)

Laboratory Sample ID: 210214-4
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	2.6	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	20	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	3.9	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061002-PK-007
Date Sampled.....: 06/10/2002
Time Sampled.....: 13:55
Sample Matrix.....: Water

OV-4 (I)

Laboratory Sample ID: 210214-5
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: Trip Blank
Date Sampled.....: 06/12/2002
Time Sampled.....: 09:02
Sample Matrix.....: Water

Laboratory Sample ID: 210214-6
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	4.6	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-008
Date Sampled.....: 06/12/2002
Time Sampled.....: 09:02
Sample Matrix.....: Water

GP-5

Laboratory Sample ID: 210214-7
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	1.1	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-009
Date Sampled.....: 06/12/2002
Time Sampled.....: 09:15
Sample Matrix.....: Water

BD-2I

Laboratory Sample ID: 210214-8
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	2.5	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210214

Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-010
Date Sampled.....: 06/12/2002
Time Sampled.....: 10:05
Sample Matrix.....: Water

BD-2D

Laboratory Sample ID: 210214-9
Date Received.....: 06/12/2002
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/17/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/17/02	jdn
	Bromomethane	ND	1.0	ug/L	06/17/02	jdn
	Chloroethane	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/17/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/17/02	jdn
	Acetone	ND	5.0	ug/L	06/17/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/17/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/17/02	jdn
	Chloroform	ND	1.0	ug/L	06/17/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/17/02	jdn
	Benzene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/17/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/17/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/17/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/17/02	jdn
	Toluene	ND	1.0	ug/L	06/17/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/17/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/17/02	jdn
	Tetrachloroethene	13	1.0	ug/L	06/17/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/17/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/17/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/17/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/17/02	jdn
	Styrene	ND	1.0	ug/L	06/17/02	jdn
	Bromoform	ND	1.0	ug/L	06/17/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/17/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/17/02	jdn

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY CHRONICLE

Job Number: 210214 Date: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 210214-1 Client ID: GW-061002-PK-003 Date Recvd: 06/12/2002 Sample Date: 06/10/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1410	
5030B	5030 25 mL Purge Prep	2	54544		06/17/2002	1754	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	54576	54544	06/17/2002	1410	1.00000
8260B	Volatile Organics	1	54576	54544	06/17/2002	1754	2.00000

Lab ID: 210214-2 Client ID: GW-061002-PK-004 Date Recvd: 06/12/2002 Sample Date: 06/10/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1438	
5030B	5030 25 mL Purge Prep	2	54544		06/17/2002	1822	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1822	1.00000

Lab ID: 210214-3 Client ID: GW-061002-PK-005 Date Recvd: 06/12/2002 Sample Date: 06/10/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1506	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1506	1.00000

Lab ID: 210214-4 Client ID: GW-061002-PK-006 Date Recvd: 06/12/2002 Sample Date: 06/10/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1534	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1534	1.00000

Lab ID: 210214-5 Client ID: GW-061002-PK-007 Date Recvd: 06/12/2002 Sample Date: 06/10/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1602	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1602	1.00000

Lab ID: 210214-6 Client ID: Trip Blank Date Recvd: 06/12/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1123	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1123	1.00000

Lab ID: 210214-7 Client ID: GW-061202-KD-008 Date Recvd: 06/12/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1630	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1630	1.00000

Lab ID: 210214-8 Client ID: GW-061202-KD-009 Date Recvd: 06/12/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1658	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1658	1.00000

Lab ID: 210214-9 Client ID: GW-061202-KD-010 Date Recvd: 06/12/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	54544		06/17/2002	1726	
8260B	Volatile Organics	1	54576	54544	06/17/2002	1726	1.00000

SEVERN TRENT SERVICES

SURROGATE RECOVERIES REPORT

Job Number.: 210214 Report Date.: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 54544
Batch(s).....: 54576 Test Matrix...: Water Equipment Code: GCL3

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/17/2002	89	101	90	93
MB			06/17/2002	83	94	90	102
210214- 1		GW-061002-PK-003	06/17/2002	85	96	96	111
210214- 1	D1	GW-061002-PK-003	06/17/2002	94	103	106	111
210214- 2		GW-061002-PK-004	06/17/2002	84	87	95	96
210214- 3		GW-061002-PK-005	06/17/2002	75	90	87	98
210214- 4		GW-061002-PK-006	06/17/2002	76	87	88	104
210214- 5		GW-061002-PK-007	06/17/2002	79	93	91	101
210214- 6		Trip Blank	06/17/2002	81	92	91	101
210214- 7		GW-061202-KD-008	06/17/2002	79	84	89	96
210214- 8		GW-061202-KD-009	06/17/2002	77	88	88	95
210214- 9		GW-061202-KD-010	06/17/2002	81	92	93	99

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

SEVERN TRENT SERVICES

QUALITY CONTROL RESULTS

Job Number.: 210214

Report Date.: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V02F17DSA	54544		06/17/2002	1043

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL3
Batch.....: 54576

Analyst...: jdn

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	14.014		10.000	1.000 U	140	%	56-129	*
Vinyl chloride	ug/L	12.272		10.000	1.000 U	123	%	67-137	
Bromomethane	ug/L	14.758		10.000	1.000 U	148	%	51-152	
Chloroethane	ug/L	11.322		10.000	1.000 U	113	%	68-135	
1,1-Dichloroethene	ug/L	10.724		10.000	1.000 U	107	%	54-127	
Carbon disulfide	ug/L	12.040		10.000	5.000 U	120	%	29-136	
Acetone	ug/L	15.055		10.000	5.000 U	151	%	43-150	*
Methylene chloride	ug/L	10.139		10.000	1.000 U	101	%	52-133	
1,1-Dichloroethane	ug/L	10.290		10.000	1.000 U	103	%	69-127	
2-Butanone (MEK)	ug/L	9.252		10.000	5.000 U	93	%	54-145	
Chloroform	ug/L	10.529		10.000	1.000 U	105	%	74-128	
1,1,1-Trichloroethane	ug/L	10.702		10.000	1.000 U	107	%	66-129	
Carbon tetrachloride	ug/L	11.912		10.000	1.000 U	119	%	66-136	
1,2-Dichloroethene (total)	ug/L	22.181		20.000	1.000 U	111	%	72-121	
Benzene	ug/L	11.462		10.000	1.000 U	115	%	74-116	
1,2-Dichloroethane	ug/L	10.462		10.000	1.000 U	105	%	63-133	
Trichloroethene	ug/L	11.825		10.000	1.000 U	118	%	70-120	
1,2-Dichloropropane	ug/L	11.395		10.000	1.000 U	114	%	71-132	
Bromodichloromethane	ug/L	11.000		10.000	1.000 U	110	%	76-129	
cis-1,3-Dichloropropene	ug/L	9.521		10.400	1.000 U	92	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	10.117		10.000	5.000 U	101	%	66-147	
Toluene	ug/L	10.888		10.000	1.000 U	109	%	71-122	
trans-1,3-Dichloropropene	ug/L	9.152		9.600	1.000 U	95	%	76-126	
1,1,2-Trichloroethane	ug/L	10.117		10.000	1.000 U	101	%	69-138	
Tetrachloroethene	ug/L	12.788		10.000	1.000 U	128	%	69-128	
2-Hexanone	ug/L	9.916		10.000	5.000 U	99	%	70-144	
Dibromochloromethane	ug/L	11.763		10.000	1.000 U	118	%	74-137	
Chlorobenzene	ug/L	11.794		10.000	1.000 U	118	%	76-124	
Ethylbenzene	ug/L	11.626		10.000	1.000 U	116	%	74-121	
Styrene	ug/L	12.321		10.000	1.000 U	123	%	80-125	
Bromoform	ug/L	12.730		10.000	1.000 U	127	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.068		10.000	1.000 U	91	%	72-127	
Xylenes (total)	ug/L	37.700		30.000	1.000 U	126	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT SERVICES

QUALITY CONTROL RESULTS

Job Number.: 210214

Report Date.: 06/18/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		54544		06/17/2002	0852

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL3
Batch.....: 54576

Analyst...: jdn

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U							
Vinyl chloride	ug/L	1.000	U							
Bromomethane	ug/L	1.000	U							
Chloroethane	ug/L	1.000	U							
1,1-Dichloroethene	ug/L	1.000	U							
Carbon disulfide	ug/L	5.000	U							
Acetone	ug/L	5.000	U							
Methylene chloride	ug/L	1.000	U							
1,1-Dichloroethane	ug/L	1.000	U							
2-Butanone (MEK)	ug/L	5.000	U							
Chloroform	ug/L	1.000	U							
1,1,1-Trichloroethane	ug/L	1.000	U							
Carbon tetrachloride	ug/L	1.000	U							
1,2-Dichloroethene (total)	ug/L	1.000	U							
Benzene	ug/L	1.000	U							
1,2-Dichloroethane	ug/L	1.000	U							
Trichloroethene	ug/L	1.000	U							
1,2-Dichloropropane	ug/L	1.000	U							
Bromodichloromethane	ug/L	1.000	U							
cis-1,3-Dichloropropene	ug/L	1.000	U							
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U							
Toluene	ug/L	1.000	U							
trans-1,3-Dichloropropene	ug/L	1.000	U							
1,1,2-Trichloroethane	ug/L	1.000	U							
Tetrachloroethene	ug/L	1.000	U							
2-Hexanone	ug/L	5.000	U							
Dibromochloromethane	ug/L	1.000	U							
Chlorobenzene	ug/L	1.000	U							
Ethylbenzene	ug/L	1.000	U							
Styrene	ug/L	1.000	U							
Bromoform	ug/L	1.000	U							
1,1,2,2-Tetrachloroethane	ug/L	1.000	U							
Xylenes (total)	ug/L	1.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT SERVICES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B *MB: Batch QC is greater than reporting limit.*
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

210214

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL, University Park

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Pat Klick PRINTED NAME: Pat Klick

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	REMARKS
1	6/10/02	9:20	GW-061002-PK-003	Water	3	✓	
2		10:05	GW-061002-PK-004		3	✓	
3		10:50	GW-061002-PK-005		3	✓	
4		12:05	GW-061002-PK-006		3	✓	
5		13:55	GW-061002-PK-007		3	✓	
6	6/12/02	—	Trip Blank		2	✓	
7		9:00	GW-061202-KD-008		3	✓	
8		9:15	GW-061202-KD-009		3	✓	
9		10:05	GW-061202-KD-010		3	✓	
				TOTAL NUMBER OF CONTAINERS	26		

RELINQUISHED BY: ① Pat Klick/[illegible]	DATE: 6/12/02 TIME: 10:20	RECEIVED BY: ② [illegible]	DATE: 6-12-02 TIME: 10:20
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Lab Courier AIR BILL No. —

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

SAMPLE TEAM: Klick, Dunwal

RECEIVED FOR LABORATORY BY: [illegible]
DATE: 6/12/02 TIME: 1100

08168

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL, University Park

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Pat Klick PRINTED NAME: Pat Klick

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS VOC	REMARKS
	6/12	9:20	GW-061002-PK-003	Water	3	✓	OV-5 (I)
		10:45	GW-061002-PK-004		3	✓	BD-8I
		11:50	GW-061002-PK-005		3	✓	BD-8D
		12:05	GW-061002-PK-006		3	✓	OV-7 (I)
		13:55	GW-061002-PK-007		3	✓	OV-4 (I)
	6/12/02	—	Trip Blank		2	✓	—
		9:00	GW-061202-KD-008		3	✓	GP-5
		9:15	GW-061202-KD-009		3	✓	BD-2I
		10:05	GW-061202-KD-010		3	✓	BD-2D

TOTAL NUMBER OF CONTAINERS 26

RELINQUISHED BY: ① Pat Klick/Ken Dwyal	DATE: 6/12/02 TIME: 10:20	RECEIVED BY: ② [illegible]	DATE: 6-12 TIME: 10:20
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Lab Courier AIR BILL No. —

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

SAMPLE TEAM: Klick, Dwyal

RECEIVED FOR LABORATORY BY:

DATE: TIME:

08168

1C01(FORMS)-OCT 24/96-REV 0 (CF-01)

SEVERN TRENT SERVICES

30409

MN FILE COPY

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 210272

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/24/2002

RECEIVED
JUN 27 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

6/24/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Assoc.
Project 30409
Job Number 210272
VOA DATA:

1. The water samples were properly preserved and analyzed within the 14-day hold time for preserved samples.

2. All Method Blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all five-controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The samples were prepared using Method 5030B and analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. All samples were analyzed without dilution using a 25mL purge volume.

Jennifer S. O'Gorman
Jennifer S. O'Gorman
GC/MS VOA Dept.

6-24-02
Date

SEVERN TRENT SERVICES

SAMPLE INFORMATION
Date: 06/24/2002

Job Number.: 210272
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210272-1	GW-061202-KD-011	Water	06/12/2002	11:25	06/15/2002	09:30
210272-2	GW-061202-KD-012	Water	06/12/2002	13:25	06/15/2002	09:30
210272-3	GW-061202-KD-013	Water	06/12/2002	14:20	06/15/2002	09:30
210272-4	GW-061202-KD-014	Water	06/12/2002	16:32	06/15/2002	09:30
210272-5	GW-061202-PK-015	Water	06/13/2002	08:50	06/15/2002	09:30
210272-6	GW-061202-PK-016	Water	06/13/2002	09:10	06/15/2002	09:30
210272-7	GW-061202-PK-017	Water	06/13/2002	10:25	06/15/2002	09:30
210272-8	Trip Blank	Water	06/13/2002	11:25	06/15/2002	09:30

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-011
Date Sampled.....: 06/12/2002
Time Sampled.....: 11:25
Sample Matrix.....: Water

OV-9

Laboratory Sample ID: 210272-1
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-012
Date Sampled.....: 06/12/2002
Time Sampled.....: 13:25
Sample Matrix.....: Water

BD-6I

Laboratory Sample ID: 210272-2
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-013
Date Sampled.....: 06/12/2002
Time Sampled.....: 14:20
Sample Matrix.....: Water

BD-6D

Laboratory Sample ID: 210272-3
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-KD-014
Date Sampled.....: 06/12/2002
Time Sampled.....: 16:32
Sample Matrix.....: Water

BD-1D

Laboratory Sample ID: 210272-4
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272 Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-PK-015
Date Sampled.....: 06/13/2002
Time Sampled.....: 08:50
Sample Matrix.....: Water

BD - 1 I

Laboratory Sample ID: 210272-5
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	1.5	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-PK-016
Date Sampled.....: 06/13/2002
Time Sampled.....: 09:10
Sample Matrix.....: Water

OV-1

Laboratory Sample ID: 210272-6
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	33	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	34	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-061202-PK-017
Date Sampled.....: 06/13/2002
Time Sampled.....: 10:25
Sample Matrix.....: Water

Irrigation fire system well

Laboratory Sample ID: 210272-7
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY TEST RESULTS

Job Number: 210272

Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: Trip Blank
Date Sampled.....: 06/13/2002
Time Sampled.....: 11:25
Sample Matrix.....: Water

Laboratory Sample ID: 210272-8
Date Received.....: 06/15/2002
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/21/02	jso
	Vinyl chloride	ND	1.0	ug/L	06/21/02	jso
	Bromomethane	ND	1.0	ug/L	06/21/02	jso
	Chloroethane	ND	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethene	ND	1.0	ug/L	06/21/02	jso
	Carbon disulfide	ND	5.0	ug/L	06/21/02	jso
	Acetone	ND	5.0	ug/L	06/21/02	jso
	Methylene chloride	4.3	1.0	ug/L	06/21/02	jso
	1,1-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	2-Butanone (MEK)	ND	5.0	ug/L	06/21/02	jso
	Chloroform	ND	1.0	ug/L	06/21/02	jso
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Carbon tetrachloride	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/21/02	jso
	Benzene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloroethane	ND	1.0	ug/L	06/21/02	jso
	Trichloroethene	ND	1.0	ug/L	06/21/02	jso
	1,2-Dichloropropane	ND	1.0	ug/L	06/21/02	jso
	Bromodichloromethane	ND	1.0	ug/L	06/21/02	jso
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/21/02	jso
	Toluene	ND	1.0	ug/L	06/21/02	jso
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/21/02	jso
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/21/02	jso
	Tetrachloroethene	ND	1.0	ug/L	06/21/02	jso
	2-Hexanone	ND	5.0	ug/L	06/21/02	jso
	Dibromochloromethane	ND	1.0	ug/L	06/21/02	jso
	Chlorobenzene	ND	1.0	ug/L	06/21/02	jso
	Ethylbenzene	ND	1.0	ug/L	06/21/02	jso
	Styrene	ND	1.0	ug/L	06/21/02	jso
	Bromoform	ND	1.0	ug/L	06/21/02	jso
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/21/02	jso
	Xylenes (total)	ND	1.0	ug/L	06/21/02	jso

In Description = Dry Wgt.

SEVERN TRENT SERVICES

LABORATORY CHRONICLE

Job Number: 210272 Date: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 210272-1 Client ID: GW-061202-KD-011 Date Recvd: 06/15/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1354	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	55119	55049	06/21/2002	1354	1.00000

Lab ID: 210272-2 Client ID: GW-061202-KD-012 Date Recvd: 06/15/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1422	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1422	1.00000

Lab ID: 210272-3 Client ID: GW-061202-KD-013 Date Recvd: 06/15/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1450	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1450	1.00000

Lab ID: 210272-4 Client ID: GW-061202-KD-014 Date Recvd: 06/15/2002 Sample Date: 06/12/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1519	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1519	1.00000

Lab ID: 210272-5 Client ID: GW-061202-PK-015 Date Recvd: 06/15/2002 Sample Date: 06/13/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1547	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1547	1.00000

Lab ID: 210272-6 Client ID: GW-061202-PK-016 Date Recvd: 06/15/2002 Sample Date: 06/13/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1615	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1615	1.00000

Lab ID: 210272-7 Client ID: GW-061202-PK-017 Date Recvd: 06/15/2002 Sample Date: 06/13/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1643	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1643	1.00000

Lab ID: 210272-8 Client ID: Trip Blank Date Recvd: 06/15/2002 Sample Date: 06/13/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	55049		06/21/2002	1010	
8260B	Volatile Organics	1	55119	55049	06/21/2002	1010	1.00000

SEVERN TRENT SERVICES

SURROGATE RECOVERIES REPORT

Job Number.: 210272

Report Date.: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics
Batch(s).....: 55119

Method Code...: 8260B
Test Matrix...: Water

Prep Batch.....: 55049
Equipment Code: GCL3

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/21/2002	98	102	91	102
MB			06/21/2002	81	86	82	97
210272- 1		GW-061202-KD-011	06/21/2002	92	94	93	104
210272- 2		GW-061202-KD-012	06/21/2002	86	87	85	95
210272- 3		GW-061202-KD-013	06/21/2002	98	93	97	105
210272- 4		GW-061202-KD-014	06/21/2002	85	86	86	94
210272- 5		GW-061202-PK-015	06/21/2002	92	92	91	100
210272- 6		GW-061202-PK-016	06/21/2002	94	89	88	99
210272- 7		GW-061202-PK-017	06/21/2002	89	92	88	100
210272- 8		Trip Blank	06/21/2002	82	85	83	95

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

SEVERN TRENT SERVICES

QUALITY CONTROL RESULTS

Job Number.: 210272

Report Date.: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL3
Batch.....: 55119

Analyst...: jso

LCS	Laboratory Control Sample	V02F21DSA	55049		06/21/2002	1037

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	8.202		10.000	1.000 U	82	%	56-129	
Vinyl chloride	ug/L	12.655		10.000	1.000 U	127	%	67-137	
Bromomethane	ug/L	8.030		10.000	1.000 U	80	%	51-152	
Chloroethane	ug/L	12.423		10.000	1.000 U	124	%	68-135	
1,1-Dichloroethene	ug/L	10.031		10.000	1.000 U	100	%	54-127	
Carbon disulfide	ug/L	10.103		10.000	5.000 U	101	%	29-136	
Acetone	ug/L	11.550		10.000	5.000 U	116	%	43-150	
Methylene chloride	ug/L	9.767		10.000	1.000 U	98	%	52-133	
1,1-Dichloroethane	ug/L	9.603		10.000	1.000 U	96	%	69-127	
2-Butanone (MEK)	ug/L	7.992		10.000	5.000 U	80	%	54-145	
Chloroform	ug/L	9.992		10.000	1.000 U	100	%	74-128	
1,1,1-Trichloroethane	ug/L	10.670		10.000	1.000 U	107	%	66-129	
Carbon tetrachloride	ug/L	11.894		10.000	1.000 U	119	%	66-136	
1,2-Dichloroethene (total)	ug/L	19.226		20.000	1.000 U	96	%	72-121	
Benzene	ug/L	10.233		10.000	1.000 U	102	%	74-116	
1,2-Dichloroethane	ug/L	9.972		10.000	1.000 U	100	%	63-133	
Trichloroethene	ug/L	10.674		10.000	1.000 U	107	%	70-120	
1,2-Dichloropropane	ug/L	10.454		10.000	1.000 U	105	%	71-132	
Bromodichloromethane	ug/L	10.062		10.000	1.000 U	101	%	76-129	
cis-1,3-Dichloropropene	ug/L	9.257		10.400	1.000 U	89	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	8.916		10.000	5.000 U	89	%	66-147	
Toluene	ug/L	10.193		10.000	1.000 U	102	%	71-122	
trans-1,3-Dichloropropene	ug/L	8.675		9.600	1.000 U	90	%	76-126	
1,1,2-Trichloroethane	ug/L	8.384		10.000	1.000 U	84	%	69-138	
Tetrachloroethene	ug/L	11.836		10.000	1.000 U	118	%	69-128	
2-Hexanone	ug/L	8.716		10.000	5.000 U	87	%	70-144	
Dibromochloromethane	ug/L	10.320		10.000	1.000 U	103	%	74-137	
Chlorobenzene	ug/L	10.740		10.000	1.000 U	107	%	76-124	
Ethylbenzene	ug/L	11.154		10.000	1.000 U	112	%	74-121	
Styrene	ug/L	10.836		10.000	1.000 U	108	%	80-125	
Bromoform	ug/L	10.554		10.000	1.000 U	106	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.604		10.000	1.000 U	96	%	72-127	
Xylenes (total)	ug/L	36.102		30.000	1.000 U	120	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT SERVICES

QUALITY CONTROL RESULTS

Job Number.: 210272

Report Date.: 06/24/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		55049		06/21/2002	0855

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL3
Batch.....: 55119

Analyst...: jso

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U						
Vinyl chloride	ug/L	1.000	U						
Bromomethane	ug/L	1.000	U						
Chloroethane	ug/L	1.000	U						
1,1-Dichloroethene	ug/L	1.000	U						
Carbon disulfide	ug/L	5.000	U						
Acetone	ug/L	5.000	U						
Methylene chloride	ug/L	1.000	U						
1,1-Dichloroethane	ug/L	1.000	U						
2-Butanone (MEK)	ug/L	5.000	U						
Chloroform	ug/L	1.000	U						
1,1,1-Trichloroethane	ug/L	1.000	U						
Carbon tetrachloride	ug/L	1.000	U						
1,2-Dichloroethene (total)	ug/L	1.000	U						
Benzene	ug/L	1.000	U						
1,2-Dichloroethane	ug/L	1.000	U						
Trichloroethene	ug/L	1.000	U						
1,2-Dichloropropane	ug/L	1.000	U						
Bromodichloromethane	ug/L	1.000	U						
cis-1,3-Dichloropropene	ug/L	1.000	U						
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U						
Toluene	ug/L	1.000	U						
trans-1,3-Dichloropropene	ug/L	1.000	U						
1,1,2-Trichloroethane	ug/L	1.000	U						
Tetrachloroethene	ug/L	1.000	U						
2-Hexanone	ug/L	5.000	U						
Dibromochloromethane	ug/L	1.000	U						
Chlorobenzene	ug/L	1.000	U						
Ethylbenzene	ug/L	1.000	U						
Styrene	ug/L	1.000	U						
Bromoform	ug/L	1.000	U						
1,1,2,2-Tetrachloroethane	ug/L	1.000	U						
Xylenes (total)	ug/L	1.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SEVERN TRENT SERVICES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

210272

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): STL - University Park

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: Ken Duwal

PRINTED NAME: Ken Duwal

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	REMARKS
1	6/12/02	11:25	GW-061202-KD-011	Water	3	✓	
2		13:25	GW-061202-KD-012		3	✓	
3		14:20	GW-061202-KD-013		3	✓	
4		16:30	GW-061202-KD-014		3	✓	
5	6/13/02	8:50	GW-061302-PK-015		3	✓	
6		9:10	GW-061302-PK-016		3	✓	
7		10:25	GW-061302-PK-017		3	✓	
8		—	TRIP BLANK		2	✓	

TOTAL NUMBER OF CONTAINERS 23

RELINQUISHED BY: ① Ken Duwal	DATE: 6/14/02 TIME: 15:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex - Sat. Del. AIR BILL No. 4241047686347

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

SAMPLE TEAM: Duwal, Klick

RECEIVED FOR LABORATORY BY: [signature]
DATE: 6-15-02 TIME: 1200

08021

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - University Park

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Ken Duwal

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	REMARKS
	6/12/02	11:25	GW-061202-KD-011	Water	3	✓	OV-9
		13:25	GW-061202-KD-012		3	✓	BD-6I
		14:20	GW-061202-KD-013		3	✓	BD-6D
		16:30	GW-061202-KD-014		3	✓	BD-1D
	6/13/02	8:50	GW-061302-PK-015		3	✓	~~[illegible]~~ BD-1I
		9:10	GW-061302-PK-016		3	✓	OV-1
		10:25	GW-061302-PK-017		3	✓	Irrigation Fire system well
		—	TRIP BLANK		2	✓	

TOTAL NUMBER OF CONTAINERS 23

RELINQUISHED BY: ① [signature]	DATE: 6/14/02 TIME: 15:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex - Sat. Del. AIR BILL No. 4410447686344

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

SAMPLE TEAM: Duwal, Klick

RECEIVED FOR LABORATORY BY:

DATE: TIME:

08021

1CG1(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

STL Chicago

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

MN FILE COPY

JOB NUMBER: 210376

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 07/08/2002

RECEIVED
JUL 09 2002
CRA, INC.

Signature

7/8/02
Date

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga - Rovers & Associates
Project 30409
Job Number: 210376
VOA DATA:

1. All three vials of sample –1 were labeled with HCL preserved stickers. The sample pH was actually pH of 7. Sample -1 was analyzed past the 7-day hold time for water samples having a pH greater than 2. The other water sample was properly preserved and analyzed within the 14-day hold time for preserved samples.

2. All Method Blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all five-controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. The volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The samples were prepared using Method 5030B and analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The water samples were analyzed without dilution using a 25-mL purge volume.

JoAnn M. Petruszak
JoAnn Petruszak
GC/MS Unit Leader.

7-9-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 07/08/2002

Job Number.: 210376
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210376-1	GW-062002-MG-018	Water	06/20/2002	08:30	06/21/2002	10:30
210376-2	Trip Blank	Water	06/20/2002	08:30	06/21/2002	10:30

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 210376

Date: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-062002-MG-018
Date Sampled.....: 06/20/2002
Time Sampled.....: 08:30
Sample Matrix.....: Water

SB-15

Laboratory Sample ID: 210376-1
Date Received.....: 06/21/2002
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	07/03/02	jab
	Vinyl chloride	ND	1.0	ug/L	07/03/02	jab
	Bromomethane	ND	1.0	ug/L	07/03/02	jab
	Chloroethane	ND	1.0	ug/L	07/03/02	jab
	1,1-Dichloroethene	ND	1.0	ug/L	07/03/02	jab
	Carbon disulfide	ND	5.0	ug/L	07/03/02	jab
	Acetone	5.2	5.0	ug/L	07/03/02	jab
	Methylene chloride	ND	1.0	ug/L	07/03/02	jab
	1,1-Dichloroethane	ND	1.0	ug/L	07/03/02	jab
	2-Butanone (MEK)	ND	5.0	ug/L	07/03/02	jab
	Chloroform	ND	1.0	ug/L	07/03/02	jab
	1,1,1-Trichloroethane	ND	1.0	ug/L	07/03/02	jab
	Carbon tetrachloride	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloroethene (total)	ND	1.0	ug/L	07/03/02	jab
	Benzene	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloroethane	ND	1.0	ug/L	07/03/02	jab
	Trichloroethene	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloropropane	ND	1.0	ug/L	07/03/02	jab
	Bromodichloromethane	ND	1.0	ug/L	07/03/02	jab
	cis-1,3-Dichloropropene	ND	1.0	ug/L	07/03/02	jab
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	07/03/02	jab
	Toluene	ND	1.0	ug/L	07/03/02	jab
	trans-1,3-Dichloropropene	ND	1.0	ug/L	07/03/02	jab
	1,1,2-Trichloroethane	ND	1.0	ug/L	07/03/02	jab
	Tetrachloroethene	ND	1.0	ug/L	07/03/02	jab
	2-Hexanone	ND	5.0	ug/L	07/03/02	jab
	Dibromochloromethane	ND	1.0	ug/L	07/03/02	jab
	Chlorobenzene	ND	1.0	ug/L	07/03/02	jab
	Ethylbenzene	ND	1.0	ug/L	07/03/02	jab
	Styrene	ND	1.0	ug/L	07/03/02	jab
	Bromoform	ND	1.0	ug/L	07/03/02	jab
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	07/03/02	jab
	Xylenes (total)	ND	1.0	ug/L	07/03/02	jab

In Description = Dry Wgt.

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 210376 Date: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: Trip Blank
Date Sampled.....: 06/20/2002
Time Sampled.....: 08:30
Sample Matrix.....: Water

Laboratory Sample ID: 210376-2
Date Received.....: 06/21/2002
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	07/03/02	jab
	Vinyl chloride	ND	1.0	ug/L	07/03/02	jab
	Bromomethane	ND	1.0	ug/L	07/03/02	jab
	Chloroethane	ND	1.0	ug/L	07/03/02	jab
	1,1-Dichloroethene	ND	1.0	ug/L	07/03/02	jab
	Carbon disulfide	ND	5.0	ug/L	07/03/02	jab
	Acetone	ND	5.0	ug/L	07/03/02	jab
	Methylene chloride	5.5	1.0	ug/L	07/03/02	jab
	1,1-Dichloroethane	ND	1.0	ug/L	07/03/02	jab
	2-Butanone (MEK)	ND	5.0	ug/L	07/03/02	jab
	Chloroform	ND	1.0	ug/L	07/03/02	jab
	1,1,1-Trichloroethane	ND	1.0	ug/L	07/03/02	jab
	Carbon tetrachloride	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloroethene (total)	ND	1.0	ug/L	07/03/02	jab
	Benzene	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloroethane	ND	1.0	ug/L	07/03/02	jab
	Trichloroethene	ND	1.0	ug/L	07/03/02	jab
	1,2-Dichloropropane	ND	1.0	ug/L	07/03/02	jab
	Bromodichloromethane	ND	1.0	ug/L	07/03/02	jab
	cis-1,3-Dichloropropene	ND	1.0	ug/L	07/03/02	jab
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	07/03/02	jab
	Toluene	ND	1.0	ug/L	07/03/02	jab
	trans-1,3-Dichloropropene	ND	1.0	ug/L	07/03/02	jab
	1,1,2-Trichloroethane	ND	1.0	ug/L	07/03/02	jab
	Tetrachloroethene	ND	1.0	ug/L	07/03/02	jab
	2-Hexanone	ND	5.0	ug/L	07/03/02	jab
	Dibromochloromethane	ND	1.0	ug/L	07/03/02	jab
	Chlorobenzene	ND	1.0	ug/L	07/03/02	jab
	Ethylbenzene	ND	1.0	ug/L	07/03/02	jab
	Styrene	ND	1.0	ug/L	07/03/02	jab
	Bromoform	ND	1.0	ug/L	07/03/02	jab
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	07/03/02	jab
	Xylenes (total)	ND	1.0	ug/L	07/03/02	jab

In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 210376 Date: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 210376-1 Client ID: GW-062002-MG-018 Date Recvd: 06/21/2002 Sample Date: 06/20/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	56034		07/03/2002	1313	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	56089	56034	07/03/2002	1313	1.00000

Lab ID: 210376-2 Client ID: Trip Blank Date Recvd: 06/21/2002 Sample Date: 06/20/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	56034		07/03/2002	1342	
8260B	Volatile Organics	1	56089	56034	07/03/2002	1342	1.00000

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SEVERN TRENT SERVICES

STL Chicago

SURROGATE RECOVERIES REPORT

Job Number.: 210376 Report Date.: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics Method Code...: 8260B Prep Batch....: 56034
Batch(s).....: 56089 Test Matrix...: Water Equipment Code: GCL6

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			07/03/2002	93	96	92	94
MB			07/03/2002	89	89	88	89
210376- 1		GW-062002-MG-018	07/03/2002	107	107	105	108
210376- 2		Trip Blank	07/03/2002	115	110	111	113

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210376

Report Date.: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates | PROJECT: PROJECT 30409 | ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL6
Batch.....: 56089

Analyst...: jab

LCS	Laboratory Control Sample	V02G03DSB	56034 -018		07/03/2002 0924

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	7.716		10.000	1.000 U	77	%	56-129	
Vinyl chloride	ug/L	9.002		10.000	1.000 U	90	%	67-137	
Bromomethane	ug/L	7.831		10.000	1.000 U	78	%	51-152	
Chloroethane	ug/L	8.793		10.000	1.000 U	88	%	68-135	
1,1-Dichloroethene	ug/L	10.715		10.000	1.000 U	107	%	54-127	
Carbon disulfide	ug/L	10.935		10.000	5.000 U	109	%	29-136	
Acetone	ug/L	7.353		10.000	5.000 U	74	%	43-150	
Methylene chloride	ug/L	10.120		10.000	1.000 U	101	%	52-133	
1,1-Dichloroethane	ug/L	10.183		10.000	1.000 U	102	%	69-127	
2-Butanone (MEK)	ug/L	8.009		10.000	5.000 U	80	%	54-145	
Chloroform	ug/L	9.997		10.000	1.000 U	100	%	74-128	
1,1,1-Trichloroethane	ug/L	10.189		10.000	1.000 U	102	%	66-129	
Carbon tetrachloride	ug/L	10.515		10.000	1.000 U	105	%	66-136	
1,2-Dichloroethene (total)	ug/L	19.790		20.000	1.000 U	99	%	72-121	
Benzene	ug/L	10.167		10.000	1.000 U	102	%	74-116	
1,2-Dichloroethane	ug/L	10.032		10.000	1.000 U	100	%	63-133	
Trichloroethene	ug/L	10.107		10.000	1.000 U	101	%	70-120	
1,2-Dichloropropane	ug/L	10.347		10.000	1.000 U	103	%	71-132	
Bromodichloromethane	ug/L	9.988		10.000	1.000 U	100	%	76-129	
cis-1,3-Dichloropropene	ug/L	9.598		10.400	1.000 U	92	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	8.794		10.000	5.000 U	88	%	66-147	
Toluene	ug/L	10.026		10.000	1.000 U	100	%	71-122	
trans-1,3-Dichloropropene	ug/L	9.282		9.600	1.000 U	97	%	76-126	
1,1,2-Trichloroethane	ug/L	9.471		10.000	1.000 U	95	%	69-138	
Tetrachloroethene	ug/L	10.530		10.000	1.000 U	105	%	69-128	
2-Hexanone	ug/L	8.555		10.000	5.000 U	86	%	70-144	
Dibromochloromethane	ug/L	10.175		10.000	1.000 U	102	%	74-137	
Chlorobenzene	ug/L	10.127		10.000	1.000 U	101	%	76-124	
Ethylbenzene	ug/L	9.902		10.000	1.000 U	99	%	74-121	
Styrene	ug/L	10.125		10.000	1.000 U	101	%	80-125	
Bromoform	ug/L	10.233		10.000	1.000 U	102	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.716		10.000	1.000 U	97	%	72-127	
Xylenes (total)	ug/L	32.040		30.000	1.000 U	107	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

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QUALITY CONTROL RESULTS

Job Number.: 210376

Report Date.: 07/08/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		56034 -017		07/03/2002	0844

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL6
Batch.....: 56089

Analyst...: jab

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U							
Vinyl chloride	ug/L	1.000	U							
Bromomethane	ug/L	1.000	U							
Chloroethane	ug/L	1.000	U							
1,1-Dichloroethene	ug/L	1.000	U							
Carbon disulfide	ug/L	5.000	U							
Acetone	ug/L	5.000	U							
Methylene chloride	ug/L	1.000	U							
1,1-Dichloroethane	ug/L	1.000	U							
2-Butanone (MEK)	ug/L	5.000	U							
Chloroform	ug/L	1.000	U							
1,1,1-Trichloroethane	ug/L	1.000	U							
Carbon tetrachloride	ug/L	1.000	U							
1,2-Dichloroethene (total)	ug/L	1.000	U							
Benzene	ug/L	1.000	U							
1,2-Dichloroethane	ug/L	1.000	U							
Trichloroethene	ug/L	1.000	U							
1,2-Dichloropropane	ug/L	1.000	U							
Bromodichloromethane	ug/L	1.000	U							
cis-1,3-Dichloropropene	ug/L	1.000	U							
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U							
Toluene	ug/L	1.000	U							
trans-1,3-Dichloropropene	ug/L	1.000	U							
1,1,2-Trichloroethane	ug/L	1.000	U							
Tetrachloroethene	ug/L	1.000	U							
2-Hexanone	ug/L	5.000	U							
Dibromochloromethane	ug/L	1.000	U							
Chlorobenzene	ug/L	1.000	U							
Ethylbenzene	ug/L	1.000	U							
Styrene	ug/L	1.000	U							
Bromoform	ug/L	1.000	U							
1,1,2,2-Tetrachloroethane	ug/L	1.000	U							
Xylenes (total)	ug/L	1.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/08/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/08/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/08/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	*Seeded Control Blank*
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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210376

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL University Park

REFERENCE NUMBER: 30409

PROJECT NAME: Rexnord

SAMPLER'S SIGNATURE: [signature]

PRINTED NAME: Matt Groves

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	REMARKS
1	6-20-02	830	GW-062002-MG-018	Water	3	X	
2			Trip blank				Added by Login

TOTAL NUMBER OF CONTAINERS 3

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
① [signature]	6-20-02	1100	②		
②			③		
③			④		

METHOD OF SHIPMENT: FedEx

AIR BILL No. 4410 4468 6940

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

SAMPLE TEAM: M. Groves

RECEIVED FOR LABORATORY BY: [signature]

DATE: 6/21/02 TIME: 1030

08505

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

30409

SEVERN TRENT SERVICES

STL Chicago

COPY

5-005
5-006
GW-002

SEVERN TRENT LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 210023

Prepared For:

Conestoga-Rovers & Associates
1801 Old Highway 8 NW
Suite 114
St. Paul, MN 55112

Project: Project 30409

Attention: Grant Anderson

Date: 06/07/2002

RECEIVED
JUN 11 2002
CRA, INC.

RECEIVED
JUN 11 2002
CRA, INC.

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

6/7/02
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

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Severn Trent Laboratories Chicago
GC/MS Case Narrative

Conestoga-Rovers & Associates
Project 30409
Job Number: 210023
VOA DATA:

1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.

2. Bromomethane was detected in the method blank and the extraction blank for batch 53519. Bromomethane was not detected in the associated samples. All other Method Blank target compounds were below reporting limits.

3. All of the spike recoveries for the five control compounds were within the in-house generated QC limits in the LCS samples.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.

5. All volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The water sample was prepared using method 5030B. The soil samples were prepared using the high level Method 5035. All of the samples were analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.

8. The water sample was analyzed using a 25ml purge volume. The soil samples were screened prior to GC/MS analysis. The soil samples were analyzed using the high-level soil method. The results and reporting limits were adjusted to account for the sample weights, dilutions, the analytical procedure, and on a dry weight basis.

John Nagel
GC/MS Dept.

6-7-02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 06/07/2002

Job Number.: 210023
Customer...: Conestoga-Rovers & Associates
Attn.....: Grant Anderson

Project Number.....: 20002138
Customer Project ID....: PROJECT 30409
Project Description....: Project 30409

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210023-1	S-060102-DN-005	Soil	06/01/2002	10:50	06/03/2002	09:20
210023-2	S-060102-DN-006	Soil	06/01/2002	11:05	06/03/2002	09:20
210023-3	GW-060102-DN-002	Water	06/01/2002	11:55	06/03/2002	09:20

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LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-060102-DN-005
Date Sampled.....: 06/01/2002
Time Sampled.....: 10:50
Sample Matrix.....: Soil

SB-12 (2-4' bgs)

Laboratory Sample ID: 210023-1
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Vinyl chloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromomethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Carbon disulfide, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Acetone, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Methylene chloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chloroform, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Benzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Trichloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromodichloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Toluene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Tetrachloroethene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	2-Hexanone, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Dibromochloromethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Chlorobenzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Ethylbenzene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Styrene, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Bromoform, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	94	ug/Kg	06/05/02	jdn
	Xylenes (total), High/Med Level*	130	94	ug/Kg	06/05/02	jdn
Method	% Solids Determination					
	% Solids, Solid	87.5	0.10	%	06/03/02	clb
	% Moisture, Solid	12.5	0.10	%	06/03/02	clb

* In Description = Dry Wgt.

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: S-060102-DN-006
Date Sampled.....: 06/01/2002
Time Sampled.....: 11:05
Sample Matrix.....: Soil

SB-12 (8-10' bgs)

Laboratory Sample ID: 210023-2
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Vinyl chloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromomethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1-Dichloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Carbon disulfide, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Acetone, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Methylene chloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1-Dichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	2-Butanone (MEK), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chloroform, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,1-Trichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Carbon tetrachloride, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloroethene (total), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Benzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Trichloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,2-Dichloropropane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromodichloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	cis-1,3-Dichloropropene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK), High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Toluene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	trans-1,3-Dichloropropene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,2-Trichloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Tetrachloroethene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	2-Hexanone, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Dibromochloromethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Chlorobenzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Ethylbenzene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Styrene, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Bromoform, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	1,1,2,2-Tetrachloroethane, High/Med Level*	ND	96	ug/Kg	06/05/02	jdn
	Xylenes (total), High/Med Level*	120	96	ug/Kg	06/05/02	jdn
Method	% Solids Determination					
	% Solids, Solid	87.0	0.10	%	06/03/02	clb
	% Moisture, Solid	13.0	0.10	%	06/03/02	clb

* In Description = Dry Wgt.

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SEVERN TRENT SERVICES

STL Chicago

LABORATORY TEST RESULTS

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Customer Sample ID: GW-060102-DN-002
Date Sampled.....: 06/01/2002
Time Sampled.....: 11:55
Sample Matrix.....: Water

SB-12
(W/L @ 9.25 bgs)

Laboratory Sample ID: 210023-3
Date Received.....: 06/03/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
8260B	Volatile Organics					
	Chloromethane	ND	1.0	ug/L	06/05/02	jdn
	Vinyl chloride	ND	1.0	ug/L	06/05/02	jdn
	Bromomethane	ND	1.0	ug/L	06/05/02	jdn
	Chloroethane	ND	1.0	ug/L	06/05/02	jdn
	1,1-Dichloroethene	ND	1.0	ug/L	06/05/02	jdn
	Carbon disulfide	ND	5.0	ug/L	06/05/02	jdn
	Acetone	11	5.0	ug/L	06/05/02	jdn
	Methylene chloride	ND	1.0	ug/L	06/05/02	jdn
	1,1-Dichloroethane	ND	1.0	ug/L	06/05/02	jdn
	2-Butanone (MEK)	ND	5.0	ug/L	06/05/02	jdn
	Chloroform	ND	1.0	ug/L	06/05/02	jdn
	1,1,1-Trichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Carbon tetrachloride	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloroethene (total)	ND	1.0	ug/L	06/05/02	jdn
	Benzene	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Trichloroethene	ND	1.0	ug/L	06/05/02	jdn
	1,2-Dichloropropane	ND	1.0	ug/L	06/05/02	jdn
	Bromodichloromethane	ND	1.0	ug/L	06/05/02	jdn
	cis-1,3-Dichloropropene	ND	1.0	ug/L	06/05/02	jdn
	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	06/05/02	jdn
	Toluene	ND	1.0	ug/L	06/05/02	jdn
	trans-1,3-Dichloropropene	ND	1.0	ug/L	06/05/02	jdn
	1,1,2-Trichloroethane	ND	1.0	ug/L	06/05/02	jdn
	Tetrachloroethene	ND	1.0	ug/L	06/05/02	jdn
	2-Hexanone	ND	5.0	ug/L	06/05/02	jdn
	Dibromochloromethane	ND	1.0	ug/L	06/05/02	jdn
	Chlorobenzene	ND	1.0	ug/L	06/05/02	jdn
	Ethylbenzene	ND	1.0	ug/L	06/05/02	jdn
	Styrene	ND	1.0	ug/L	06/05/02	jdn
	Bromoform	ND	1.0	ug/L	06/05/02	jdn
	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	06/05/02	jdn
	Xylenes (total)	ND	1.0	ug/L	06/05/02	jdn

* In Description = Dry Wgt.

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STL Chicago

LABORATORY CHRONICLE

Job Number: 210023

Date: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Lab ID: 210023-1 Client ID: S-060102-DN-005 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	53515		06/03/2002	2040	
5030A	5030 Purge & Trap of Methanol Extract	1	53742		06/05/2002	1539	
5035	5035 Preservation High (Methanol)	1	53731		06/03/2002	0955	
EDD	Electronic Data Deliverable	1					
8260B	Volatile Organics	1	53888	53731 -53742	06/05/2002	1539	1.0000

Lab ID: 210023-2 Client ID: S-060102-DN-006 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	53515		06/03/2002	2040	
5030A	5030 Purge & Trap of Methanol Extract	1	53742		06/05/2002	1614	
5035	5035 Preservation High (Methanol)	1	53731		06/03/2002	0957	
8260B	Volatile Organics	1	53888	53731 -53742	06/05/2002	1614	1.0000

Lab ID: 210023-3 Client ID: GW-060102-DN-002 Date Recvd: 06/03/2002 Sample Date: 06/01/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
5030B	5030 25 mL Purge Prep	1	53746		06/05/2002	1200	
8260B	Volatile Organics	1	53889	53746	06/05/2002	1200	1.00000

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SEVERN TRENT SERVICES

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SURROGATE RECOVERIES REPORT

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Method.....: Volatile Organics
Batch(s).....: 53888

Method Code...: 8260B Prep Batch....: 53731
Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
EB2			06/05/2002	98	105	116	95
210023- 1		S-060102-DN-005	06/05/2002	102	103	117	96
210023- 2		S-060102-DN-006	06/05/2002	96	102	112	96

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics
Batch(s).....: 53888

Method Code...: 8260B Prep Batch....: 53742
Test Matrix...: High/Med Level Equipment Code: GCL7

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/05/2002	94	102	108	90
MB			06/05/2002	95	106	112	93

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	43 - 139
BRFLBE	4-Bromofluorobenzene (surr)	57 - 124
DBRFLM	Dibromofluoromethane (surr)	64 - 132
TOLD8	Toluene-d8 (surr)	70 - 128

Method.....: Volatile Organics
Batch(s).....: 53889

Method Code...: 8260B Prep Batch....: 53746
Test Matrix...: Water Equipment Code: GCL2

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			06/05/2002	95	97	108	103
MB			06/05/2002	90	91	103	98
210023- 3		GW-060102-DN-002	06/05/2002	95	96	105	101

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

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QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics
Equipment Code....: GCL7
Batch.....: 53888
Analyst...: jdn

EB2	Extraction Blank 2	210023-21	53731		06/05/2002	1503

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	387.872								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53888

Analyst...: jdn

LCS	Laboratory Control Sample	V02F05DSB	53742		06/05/2002	1339

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	2310.915		2500.000	100.000	U 92	%	55-129	
Vinyl chloride, High/Med Level	ug/Kg	2486.245		2500.000	100.000	U 99	%	61-135	
Bromomethane, High/Med Level	ug/Kg	2451.015		2500.000	380.138	98	%	36-164	
Chloroethane, High/Med Level	ug/Kg	2428.425		2500.000	100.000	U 97	%	33-207	
1,1-Dichloroethene, High/Med Level	ug/Kg	2010.705		2500.000	100.000	U 80	%	44-143	
Carbon disulfide, High/Med Level	ug/Kg	2097.105		2500.000	100.000	U 84	%	21-124	
Acetone, High/Med Level	ug/Kg	1938.195		2500.000	100.000	U 78	%	34-143	
Methylene chloride, High/Med Level	ug/Kg	1829.835		2500.000	100.000	U 73	%	57-129	
1,1-Dichloroethane, High/Med Level	ug/Kg	1928.525		2500.000	100.000	U 77	%	68-119	
2-Butanone (MEK), High/Med Level	ug/Kg	1791.190		2500.000	100.000	U 72	%	40-125	
Chloroform, High/Med Level	ug/Kg	2107.445		2500.000	100.000	U 84	%	61-129	
1,1,1-Trichloroethane, High/Med Level	ug/Kg	2098.700		2500.000	100.000	U 84	%	69-133	
Carbon tetrachloride, High/Med Level	ug/Kg	2487.860		2500.000	100.000	U 100	%	59-127	
1,2-Dichloroethene (total), High/Med L	ug/Kg	4005.365		5000.000	100.000	U 80	%	60-139	
Benzene, High/Med Level	ug/Kg	2134.470		2500.000	100.000	U 85	%	67-122	
1,2-Dichloroethane, High/Med Level	ug/Kg	2173.610		2500.000	100.000	U 87	%	64-115	
Trichloroethene, High/Med Level	ug/Kg	2312.600		2500.000	100.000	U 93	%	70-123	
1,2-Dichloropropane, High/Med Level	ug/Kg	2130.305		2500.000	100.000	U 85	%	70-122	
Bromodichloromethane, High/Med Level	ug/Kg	2559.330		2500.000	100.000	U 102	%	66-128	
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	1984.865		2600.000	100.000	U 76	%	68-123	
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	1882.880		2500.000	100.000	U 75	%	54-119	
Toluene, High/Med Level	ug/Kg	2028.710		2500.000	100.000	U 81	%	72-123	
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	1982.875		2400.000	100.000	U 83	%	60-115	
1,1,2-Trichloroethane, High/Med Level	ug/Kg	2071.285		2500.000	100.000	U 83	%	67-133	
Tetrachloroethene, High/Med Level	ug/Kg	2570.755		2500.000	100.000	U 103	%	75-125	
2-Hexanone, High/Med Level	ug/Kg	1982.545		2500.000	100.000	U 79	%	50-116	
Dibromochloromethane, High/Med Level	ug/Kg	3055.705		2500.000	100.000	U 122	%	70-119	*
Chlorobenzene, High/Med Level	ug/Kg	2206.985		2500.000	100.000	U 88	%	80-125	
Ethylbenzene, High/Med Level	ug/Kg	2075.885		2500.000	100.000	U 83	%	78-128	
Styrene, High/Med Level	ug/Kg	2134.125		2500.000	100.000	U 85	%	80-129	
Bromoform, High/Med Level	ug/Kg	3334.175		2500.000	100.000	U 133	%	70-123	*
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	2619.405		2500.000	100.000	U 105	%	70-126	
Xylenes (total), High/Med Level	ug/Kg	6140.900		7500.000	100.000	U 82	%	77-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL7
Batch.....: 53888

Analyst...: jdn

MB	Method Blank		53742		06/05/2002	1228

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane, High/Med Level	ug/Kg	100.000	U							
Vinyl chloride, High/Med Level	ug/Kg	100.000	U							
Bromomethane, High/Med Level	ug/Kg	380.138								B
Chloroethane, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethene, High/Med Level	ug/Kg	100.000	U							
Carbon disulfide, High/Med Level	ug/Kg	100.000	U							
Acetone, High/Med Level	ug/Kg	100.000	U							
Methylene chloride, High/Med Level	ug/Kg	100.000	U							
1,1-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
2-Butanone (MEK), High/Med Level	ug/Kg	100.000	U							
Chloroform, High/Med Level	ug/Kg	100.000	U							
1,1,1-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Carbon tetrachloride, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethene (total), High/Med L	ug/Kg	100.000	U							
Benzene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloroethane, High/Med Level	ug/Kg	100.000	U							
Trichloroethene, High/Med Level	ug/Kg	100.000	U							
1,2-Dichloropropane, High/Med Level	ug/Kg	100.000	U							
Bromodichloromethane, High/Med Level	ug/Kg	100.000	U							
cis-1,3-Dichloropropene, High/Med Leve	ug/Kg	100.000	U							
4-Methyl-2-pentanone (MIBK), High/Med	ug/Kg	100.000	U							
Toluene, High/Med Level	ug/Kg	100.000	U							
trans-1,3-Dichloropropene, High/Med Le	ug/Kg	100.000	U							
1,1,2-Trichloroethane, High/Med Level	ug/Kg	100.000	U							
Tetrachloroethene, High/Med Level	ug/Kg	100.000	U							
2-Hexanone, High/Med Level	ug/Kg	100.000	U							
Dibromochloromethane, High/Med Level	ug/Kg	100.000	U							
Chlorobenzene, High/Med Level	ug/Kg	100.000	U							
Ethylbenzene, High/Med Level	ug/Kg	100.000	U							
Styrene, High/Med Level	ug/Kg	100.000	U							
Bromoform, High/Med Level	ug/Kg	100.000	U							
1,1,2,2-Tetrachloroethane, High/Med Le	ug/Kg	100.000	U							
Xylenes (total), High/Med Level	ug/Kg	100.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT SERVICES

STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL2
Batch.....: 53889

Analyst...: jdn

LCS	Laboratory Control Sample	V02F05DSA	53746		06/05/2002	1054

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	9.036		10.000	1.000 U	90	%	56-129	
Vinyl chloride	ug/L	11.615		10.000	1.000 U	116	%	67-137	
Bromomethane	ug/L	14.785		10.000	1.000 U	148	%	51-152	
Chloroethane	ug/L	11.006		10.000	1.000 U	110	%	68-135	
1,1-Dichloroethene	ug/L	8.639		10.000	1.000 U	86	%	54-127	
Carbon disulfide	ug/L	8.403		10.000	5.000 U	84	%	29-136	
Acetone	ug/L	19.315		10.000	5.000 U	193	%	43-150	*
Methylene chloride	ug/L	8.708		10.000	1.000 U	87	%	52-133	
1,1-Dichloroethane	ug/L	8.949		10.000	1.000 U	89	%	69-127	
2-Butanone (MEK)	ug/L	9.728		10.000	5.000 U	97	%	54-145	
Chloroform	ug/L	9.175		10.000	1.000 U	92	%	74-128	
1,1,1-Trichloroethane	ug/L	8.915		10.000	1.000 U	89	%	66-129	
Carbon tetrachloride	ug/L	8.734		10.000	1.000 U	87	%	66-136	
1,2-Dichloroethene (total)	ug/L	18.229		20.000	1.000 U	91	%	72-121	
Benzene	ug/L	9.054		10.000	1.000 U	91	%	74-116	
1,2-Dichloroethane	ug/L	8.795		10.000	1.000 U	88	%	63-133	
Trichloroethene	ug/L	9.394		10.000	1.000 U	94	%	70-120	
1,2-Dichloropropane	ug/L	9.448		10.000	1.000 U	94	%	71-132	
Bromodichloromethane	ug/L	9.143		10.000	1.000 U	91	%	76-129	
cis-1,3-Dichloropropene	ug/L	8.735		10.400	1.000 U	84	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	9.551		10.000	5.000 U	96	%	66-147	
Toluene	ug/L	9.312		10.000	1.000 U	93	%	71-122	
trans-1,3-Dichloropropene	ug/L	8.517		9.600	1.000 U	89	%	76-126	
1,1,2-Trichloroethane	ug/L	9.507		10.000	1.000 U	95	%	69-138	
Tetrachloroethene	ug/L	9.373		10.000	1.000 U	94	%	69-128	
2-Hexanone	ug/L	9.104		10.000	5.000 U	91	%	70-144	
Dibromochloromethane	ug/L	9.857		10.000	1.000 U	99	%	74-137	
Chlorobenzene	ug/L	9.395		10.000	1.000 U	94	%	76-124	
Ethylbenzene	ug/L	9.089		10.000	1.000 U	91	%	74-121	
Styrene	ug/L	9.748		10.000	1.000 U	97	%	80-125	
Bromoform	ug/L	10.019		10.000	1.000 U	100	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.382		10.000	1.000 U	94	%	72-127	
Xylenes (total)	ug/L	28.785		30.000	1.000 U	96	%	76-138	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8260B
Method Description.: Volatile Organics

Equipment Code....: GCL2
Batch.....: 53889

Analyst...: jdn

MB	Method Blank		53746		06/05/2002	1017

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	1.000	U							
Vinyl chloride	ug/L	1.000	U							
Bromomethane	ug/L	1.000	U							
Chloroethane	ug/L	1.000	U							
1,1-Dichloroethene	ug/L	1.000	U							
Carbon disulfide	ug/L	5.000	U							
Acetone	ug/L	5.000	U							
Methylene chloride	ug/L	1.000	U							
1,1-Dichloroethane	ug/L	1.000	U							
2-Butanone (MEK)	ug/L	5.000	U							
Chloroform	ug/L	1.000	U							
1,1,1-Trichloroethane	ug/L	1.000	U							
Carbon tetrachloride	ug/L	1.000	U							
1,2-Dichloroethene (total)	ug/L	1.000	U							
Benzene	ug/L	1.000	U							
1,2-Dichloroethane	ug/L	1.000	U							
Trichloroethene	ug/L	1.000	U							
1,2-Dichloropropane	ug/L	1.000	U							
Bromodichloromethane	ug/L	1.000	U							
cis-1,3-Dichloropropene	ug/L	1.000	U							
4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U							
Toluene	ug/L	1.000	U							
trans-1,3-Dichloropropene	ug/L	1.000	U							
1,1,2-Trichloroethane	ug/L	1.000	U							
Tetrachloroethene	ug/L	1.000	U							
2-Hexanone	ug/L	5.000	U							
Dibromochloromethane	ug/L	1.000	U							
Chlorobenzene	ug/L	1.000	U							
Ethylbenzene	ug/L	1.000	U							
Styrene	ug/L	1.000	U							
Bromoform	ug/L	1.000	U							
1,1,2,2-Tetrachloroethane	ug/L	1.000	U							
Xylenes (total)	ug/L	1.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 210023

Report Date.: 06/07/2002

CUSTOMER: Conestoga-Rovers & Associates PROJECT: PROJECT 30409 ATTN: Grant Anderson

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Moisture

Batch.....: 53515
Equipment Code....:

Analyst...: clb
Test Code.: %MOIST

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	100.0000								06/03/2002	2040

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids

Batch.....: 53515
Equipment Code....:

Analyst...: clb
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB			%	0.1000 U								06/03/2002	2040

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) Arizona Environmental Laboratory License number AZ0603.
6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U. Analyte was not detected at or above the stated limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.
F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the stated limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C. Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.
F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B MB: Batch QC is greater than reporting limit.
* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A Concentration exceeds the instrument calibration range
a Concentration is below the method Reporting Limit (RL)
B Compound was found in the blank and sample.
D. Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H Alternate peak selection upon analytical review
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/07/2002

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check
LCSP	pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

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210023

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL

REFERENCE NUMBER: #30409

PROJECT NAME: Rexford #[redacted]

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: DAN NELSON

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC's - soil	PARAMETERS: moisture	PARAMETERS: VOC - water	REMARKS
1	6/1/02	1050	S-060102-DN-005	Soil	2	X	X		
2	↓	1105	-006	Soil	2	X	X		
3	↓	1155	GW-060102-DN-002	Water	3			X	
			Temp blank		1				

TOTAL NUMBER OF CONTAINERS 8

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
① [signature]	DATE: 6/1/02 TIME: 1300	②	DATE: TIME:
②	DATE: TIME:	③	DATE: TIME:
③	DATE: TIME:	④	DATE: TIME:

METHOD OF SHIPMENT: Fed-Ex P.O.D. AIR BILL No.

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

SAMPLE TEAM: Nolan, D

RECEIVED FOR LABORATORY BY: [signature]
DATE: 6-3-02 TIME: 0940

08020

ATTACHMENT B

DATA VALIDATION REPORT

CONESTOGA-ROVERS & ASSOCIATES

1801 Old Highway 8 NW, Suite #114
St. Paul, Minnesota 55112
Telephone: (651) 639-0913 Fax: (651) 639-0923
www.CRAworld.com

MEMORANDUM

TO: Ron Frehner

REF. NO.: 30409

FROM: Grant Anderson

MN FILE COPY

DATE: July 10, 2002

C.C.: Analytical Data File

RE: **Data Quality Assessment and Validation**
May and June 2002 Sampling Events
Rexnord Site - Downers Grove, Illinois
(COC 8022, 8044, 8045, 8046, 8020, 8023, 8168, 8021, 8505)

The following details a data quality assessment and validation for water samples collected on May 7, 15, 20, 24, 29, June 1, 10, 12, 13, and 20, 2002 at the Rexnord Site in Downers Grove, Illinois. The samples identified in Table 1 were analyzed for volatile organic compounds (VOCs)[1]. The analyses were performed by Severn Trent Laboratories, Inc. (STL) of University Park, Illinois. The quality assurance criteria were established by the methods[2].

HOLDING TIME PERIODS AND PRESERVATION REQUIREMENTS

The holding time period for VOC analysis of water samples is 14 days from sample collection to completion of analysis. The holding time period for VOC analysis of soils (using Encores) is 48 hours to methanol addition/14 days from sample collection to analysis. On the basis of sample collection dates on the chain-of-custody forms and the analytical report provided by STL, the majority of the preservations and analyses were completed within the specified holding time period. Table 2 lists qualified sample data based on holding time violations and/or improper preservation.

METHOD BLANK SAMPLES

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Bromomethane was detected in several of the method blanks. Table 3 lists associated sample data that require qualification based on method blank data.

---

1 VOC method 8260B was derived from SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

2 Application of quality assurance criteria were consistent with "National Functional Guidelines for Organic Data Review", October 1999.

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

SURROGATE COMPOUND RECOVERIES

Individual sample performance for VOC analyses was monitored by surrogate recoveries. The surrogate recoveries were within acceptance criteria, indicating that individual sample performance was adequate.

LABORATORY CONTROL SAMPLE (LCS)

Overall performance of VOC analyses was monitored by means of LCS. With the exception of acetone, the LCS recoveries were within acceptance criteria. The acetone LCS result associated with sample GW-060102-DN-002 was above the upper control limit. As a result, the acetone result for sample GW-060102-DN-002 should the qualified as estimated (J).

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. The MS/MSDs were performed on non-project samples; therefore, they were not used to assess accuracy and precision.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC samples associated with this sampling event consisted of three trip blank samples.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, three trip blank sample were submitted to the laboratory for VOC analysis. The trip blank samples yielded detectable concentrations of methylene chloride. However, none of the associated samples yielded detections for methylene chloride; therefore, no qualification of data was necessary based on trip blank contamination.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

GDA/jla/1
Enc.

TABLE 2

SAMPLE HOLDING TIME VIOLATIONS
REXNORD SITE - DOWNERS GROVE, ILLINOIS
MAY AND JUNE 2002 SAMPLING EVENTS

Analysis	*Sample ID*	*Method Required Holding Time*	*Actual Holding Time*	*Associated Compounds*	*Qualifier*[1]
VOC	GW-062002-MG-018*	14 days to analysis	13 days to analysis	Benzene	J/UJ
				Toluene	J/UJ
				Chlorobenzene	J/UJ
				Ethyl Benzene	J/UJ
				Styrene	J/UJ
				Xylenes (total)	J/UJ
VOC	S-052002-DN-003	48 hours to preservation	3 days to preservation	All VOC compounds	J/UJ

Notes:

[1] Sample results should be qualified as:

* - The associated sample was analyzed within the 14 day hold time, however the pH of the sample was > 2; therefore, the aromatic compounds in the VOC run are qualified as estimated (J/UJ).

J - The associated value is an estimated quantity for detected analytes.

UJ - The analyte was checked for, but not detected.
The associated value is an estimated quantitation limit.

TABLE 3

SAMPLE RESULTS QUALIFIED BASED ON
METHOD BLANK DATA
REXNORD SITE - DOWNERS GROVE, ILLINOIS
MAY AND JUNE 2002 SAMPLING EVENTS

Analysis	*Analyte*	*Blank Conc (ug/kg)*	*Associated Samples*	*Qualifier*[1]
VOC	Bromomethane	341	S-052002-DN-003	390U
VOC	Bromomethane	344	S-052902-DN-004	430U

Notes:

[1] Sample results should be qualified as:

U - The analyte is non-detect with the associated value being the quantitation limit.