

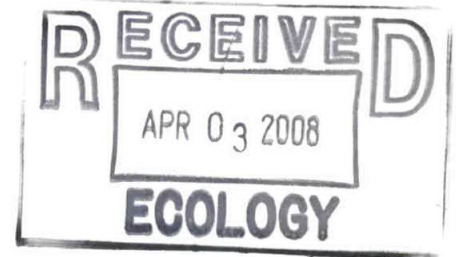


**CONESTOGA-ROVERS
& ASSOCIATES**

NW1564
April 1, 2008

Mr. Christopher Maurer
Washington State Department of Ecology
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, Washington 98008-5452

Re: **Interim Action Report - Third and Fourth Quarter 2007**
Former Chevron Service Station #9-9481
647 140th Avenue NE
Bellevue, Washington
VCP#: NW1564
UIC #: 30053



Dear Mr. Maurer:

Conestoga-Rovers & Associates, Inc. (CRA), on behalf of the Chevron Environmental Management Company (Chevron) is submitting this Interim Action Report for the above referenced site. CRA injected oxygen to enhance the degradation of petroleum hydrocarbons in groundwater. The Underground Injection Control permit is attached as Attachment A.

SITE BACKGROUND

Chevron station 9-9481 is a former gasoline station that was located at 647 140th Avenue Northeast, King County, Washington (Figure 1). The site is currently occupied by a Walgreens drug store (Figure 2). The former Chevron service station operated from 1958-1968, and again at a new location on the site from 1969-1989.

INTERIM REMEDIAL ACTION

Benzene has been detected in groundwater samples collected from monitoring well MW-2 and MW-3 at concentrations in excess of the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level. In an attempt to enhance degradation of subsurface petroleum hydrocarbons, CRA injected oxygen into monitoring well MW-2 and MW-3 during the third and fourth quarters of 2007. Two interim action events occurred during third and fourth quarter 2007, each of which included injection under pressure of 125 cubic feet of oxygen into the subsurface.

Mr. Christopher Maurer
April 1, 2008

Dates of oxygen injection and groundwater sampling were as follows:

Injection Dates	Sample Dates
September 19, 2007	September 19, 2007
November 15, 2007	November 15, 2007

To track the effectiveness of this action, grab groundwater samples were collected from MW-2 and MW-3 prior to injection events. Prior to collecting samples dissolved oxygen of groundwater was measured with a down-hole dissolved oxygen meter. Groundwater samples were then collected utilizing a disposable bailer to decant groundwater into appropriate laboratory supplied bottles. Samples were analyzed for all or a portion of the following analytes:

- total petroleum hydrocarbons as gasoline TPH-G per Method Northwest Total Petroleum Hydrocarbon Identification NWTPH-Gx, SW-846 8015B Modified
- benzene, toluene, ethylbenzene, and total xylenes per EPA Method 8260B

Analytical results are presented in Table 1 and the analytical laboratory reports are included as Attachment B.

CLOSING

CRA will continue oxygen injection events in monitoring wells MW-2 and MW-3 and issue quarterly reports. Groundwater samples will be collected immediately prior to alternating oxygen diffusion events in order to evaluate petroleum hydrocarbon trends. We appreciate your assistance with this project. Please contact us at (425) 212-5100 if you have any questions or require further information.

Sincerely,

Conestoga-Rovers & Associates, Inc.



Nicholas M. Acklam
Geologist



Brian Peters, LG
Geologist



BRIAN C. PETERS

cc: Ms. Stacie Frerichs, Chevron EMC, Room K2204, PO Box 6012, San Ramon, CA
94583-2324

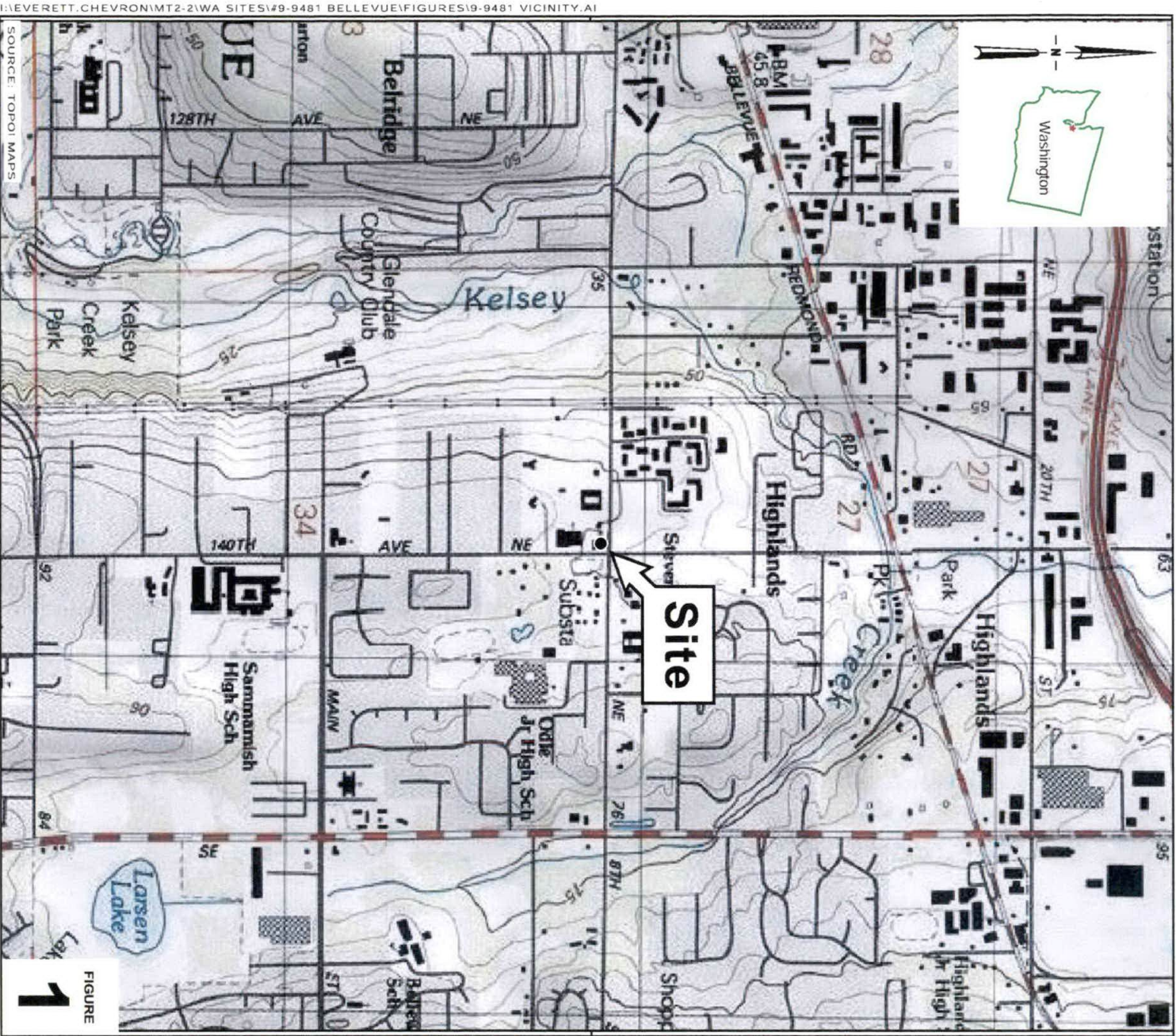
Figures: 1 - Vicinity Map
2 - Site Plan

Tables: 1 - Summary of Groundwater Analytical Data

Attachments: A - Underground Injection Control Permit
B - Laboratory Analytical Reports



I:\Everett.Chevron\MT2-2\WA Sites MT2-2\#9-9481 Bellevue\Oxygen Diffusion\2007\4Q07\9-9481_3Q-4Q Interim Action DRAFT.doc



Former Chevron Station 9-9481

647 140th Avenue Northeast

Bellevue, Washington



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

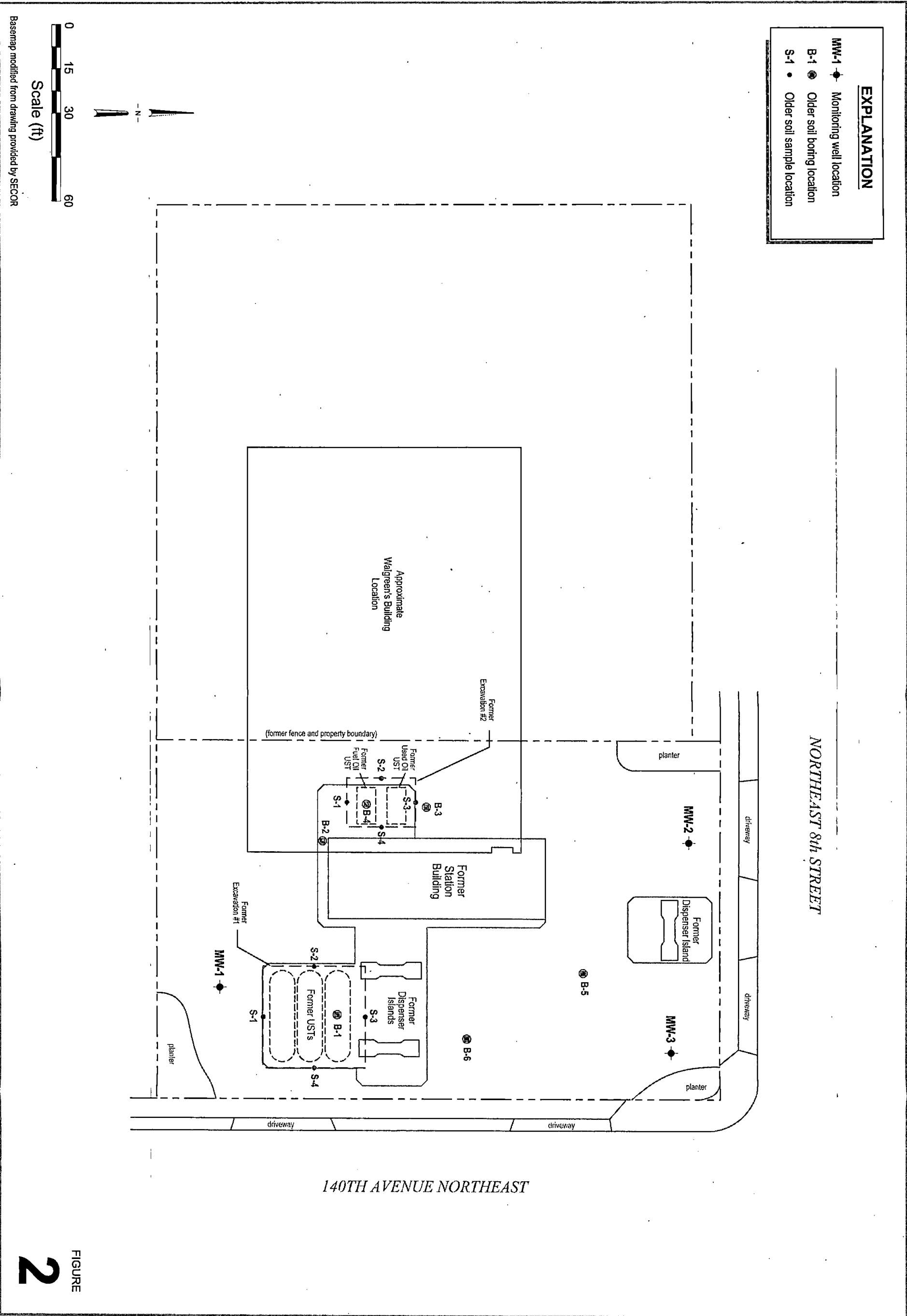


Table 1
Oxygen Diffusion Groundwater Data
Former Chevron Service Station 9-9481
647 140th Ave NE
Bellevue, WA

WELL ID/ DATE	DTW (ft.)	DO	TPH-G ppb	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb
MW-2							
9/19/2007	---	---	56	< 1	< 1	< 1	< 2
11/15/2007	---	---	---	5.3	< 1	< 1	< 2
MW-3							
9/19/2007	---	---	340	< 1	< 1	< 1	2.6
11/15/2007	---	---	---	< 1	< 1	< 1	< 2
MTCA Method A Cleanup Levels:			800/1000	5	1,000	700	1,000

Concentrations in bold type indicate the result exceeds the MTCA Method A cleanup level.

MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl tertiary butyl ether.

DTW = Depth to water.

DO = Dissolved oxygen.

(ppb) = Parts per billion.

--- = Not Sampled

ATTACHMENT A

UIC Permit



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

June 13, 2007

Mr. Thomas Bauhs
Chevron Environmental Management Co.
6001 Bollinger Canyon Rd, #K2204
San Ramon, CA 94583

RE: Registration with the Underground Injection Control (UIC) Program, Chevron
Service Stations 9-1708, 9-1951, 9-2097, 9-7618, 9-8473, 9-9168, 9-9481, 20-
5412

Dear Mr. Bauhs:

This letter is to acknowledge receipt of your registration forms received April 27, 2007
to register the above-mentioned sites with the UIC program. The UIC wells are rule
authorized and do not need a permit to operate. The sites are registered as:

Chevron Service Station	UIC site number
9-1708	30135
9-1951	30136
9-2097	30137
9-7618	30138
9-8473	30139
9-9168	30140
9-9481	30141
20-5412	30142

The project includes injecting oxygen into UIC wells to enhance remediation of total
petroleum hydrocarbons. Injection will occur approximately every two weeks from May,
2007 to December, 2011. The project also includes monthly ground water monitoring
that will help determine if the injected products or by products are being contained on
site or are moving off the site property.

The injected compounds are intended to improve ground water quality and meet the
Ground Water Quality Standards. There are inherent environmental risks associated
with injecting compounds into ground water. The site must be carefully characterized,
managed, and monitored to minimize risk and prevent unforeseen degradation of ground
water quality. Mobilized metals or other substances, injected chemicals or hazardous
bi-products, are not allowed to migrate beyond the site property boundary. A thorough
discussion of risk and management options is provided in the following document:
Technical and Regulatory Guidance for In Situ Chemical Oxidation of Contaminated Soil



and Groundwater, June 2005, prepared by Interstate Technology and Regulatory Cooperation Work Group. This document is available on the internet at:
<http://www.itrcweb.org/Documents/ISCO-2.pdf>.

The two UIC Program requirements for rule authorization are, the UIC wells must be registered and the discharge from the well must meet the nonendangerment standard, of WAC 173-218-080.

Please refer to the UIC site numbers in all correspondence concerning the sites. Also contact us when the wells are closed and describe the closure method.

Please call me at (360) 407-6143 if you have any questions. Additional information can also be found at our website <http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html>.

Sincerely,



Mary Shaleen-Hansen
Water Quality Program

Cc: Nick Acklam, Conestoga Rovers and Associates

ATTACHMENT B

Laboratory Analytical Reports

ANALYTICAL REPORT

Job Number: 580-7421-1

Job Description: 9-9481 Bellevue, WA

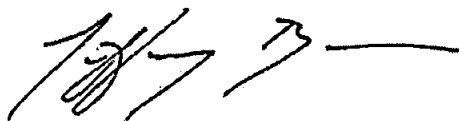
For:

Conestoga-Rovers & Associates, Inc.

1420 18th Street SW, Suite A

Everett, WA 98203

Attention: Andrea Petrusky



Designee for

Heather Curbow

Project Manager I

heather.curbow@testamericainc.com

09/26/2007

cc: Terry Crotwell
Laura Genin
Scott Manning
Christopher Martin
Christine Schweigert

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TestAmerica Laboratories, Inc.

TestAmerica Tacoma 5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com



EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
580-7421-1	9-9481-MW-3				
m-Xylene & p-Xylene		2.6	2.0	ug/L	8260B
Xylenes, Total		2.6	2.0	ug/L	8260B
Gasoline		340	50	ug/L	NWTPH-Gx
580-7421-2	9-9481-MW-2				
Gasoline		56	50	ug/L	NWTPH-Gx

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-7421-1	9-9481-MW-3	Water	09/19/2007 1040	09/20/2007 1055
580-7421-2	9-9481-MW-2	Water	09/19/2007 1155	09/20/2007 1055

Andrea Petrusky
Conestoga-Rovers & Associates, Inc.
1420 18th Street SW, Suite A
Everett, WA 98203

Job Number: 580-7421-1
Lab Sample Id: 580-7421-1
Client Matrix: Water
Date Sampled: 09/19/2007 1040
Date Received: 09/20/2007 1055

Client Sample ID: 9-9481-MW-3

Client Sample ID: 9-9481-MVV-3

	Result/Qualifier	Unit	RL	Method	Action Limit		Date Prepared	Date Analyzed	Dilution
					Lower	Upper			
GC/MS VOA									
Benzene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
Toluene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
Ethylbenzene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
m-Xylene & p-Xylene	2.6	ug/L	2.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
o-Xylene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
Xylenes, Total	2.6	ug/L	2.0	8260B	-	-	09/21/2007 0205	09/21/2007 0205	1.0
GC VOA									
Gasoline	340	ug/L	50	NWTPH-Gx	-	-	09/26/2007 0018	09/26/2007 0018	1.0

Andrea Petrusky
Conestoga-Rovers & Associates, Inc.
1420 18th Street SW, Suite A
Everett, WA 98203

Job Number: 580-7421-1
Lab Sample Id: 580-7421-2
Client Matrix: Water
Date Sampled: 09/19/2007 1155
Date Received: 09/20/2007 1055

Client Sample ID: 9-9481-MW-2

Client Sample ID: 9-9481-MW-2				Action Limit							
	Result/Qualifier	Unit	RL	Method	Lower	Upper	Date Prepared		Date Analyzed		Dilution
GC/MS VOA											
Benzene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
Toluene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
Ethylbenzene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
m-Xylene & p-Xylene	ND	ug/L	2.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
o-Xylene	ND	ug/L	1.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
Xylenes, Total	ND	ug/L	2.0	8260B	-	-	09/21/2007 0228		09/21/2007 0228		1.0
GC VOA											
Gasoline	56	ug/L	50	NWTPH-Gx	-	-	09/25/2007 2042		09/25/2007 2042		1.0

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

Method Blank - Batch: 580-23408

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 580-23408/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/20/2007 2109
Date Prepared: 09/20/2007 2109

Analysis Batch: 580-23408
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA043
Lab File ID: VB00095074.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL	RL
Benzene	ND		1.0	1.0
Toluene	ND		1.0	1.0
Ethylbenzene	ND		1.0	1.0
m-Xylene & p-Xylene	ND		2.0	2.0
o-Xylene	ND		1.0	1.0
Methyl tert-butyl ether	ND		1.0	1.0
Xylenes, Total	ND		2.0	2.0

Surrogate	% Rec	Acceptance Limits
Fluorobenzene (Surr)	84	80 - 120
Toluene-d8 (Surr)	96	85 - 120
Ethylbenzene-d10	92	80 - 120
4-Bromofluorobenzene (Surr)	105	75 - 120
Trifluorotoluene (Surr)	101	80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-23408**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 580-23408/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/20/2007 2001
Date Prepared: 09/20/2007 2001

Analysis Batch: 580-23408
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA043
Lab File ID: VB00095068.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 580-23408/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/20/2007 2024
Date Prepared: 09/20/2007 2024

Analysis Batch: 580-23408
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA043
Lab File ID: VB00095070.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	91	91	80 - 120	0	12		
Toluene	94	94	75 - 120	1	12		
Ethylbenzene	107	104	75 - 125	2	20		
m-Xylene & p-Xylene	104	102	75 - 130	2	20		
o-Xylene	100	99	80 - 120	1	20		
Methyl tert-butyl ether	100	99	66 - 127	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Fluorobenzene (Surr)	85		85		80 - 120		
Toluene-d8 (Surr)	97		100		85 - 120		
Ethylbenzene-d10	95		95		80 - 120		
4-Bromofluorobenzene (Surr)	107		106		75 - 120		
Trifluorotoluene (Surr)	102		99		80 - 120		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

Method Blank - Batch: 580-23608

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID: MB 580-23608/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/25/2007 1643
Date Prepared: 09/25/2007 1643

Analysis Batch: 580-23608
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA041
Lab File ID: Gx0008645.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL	RL
Gasoline	ND		50	50
Surrogate	% Rec		Acceptance Limits	
4-Bromofluorobenzene (Surr)	100		50 - 150	
Trifluorotoluene (Surr)	94		50 - 150	
Ethylbenzene-d10	106		50 - 150	
Fluorobenzene (Surr)	103		50 - 150	
Toluene-d8 (Surr)	105		50 - 150	

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 580-23608

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID: LCS 580-23608/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/25/2007 1705
Date Prepared: 09/25/2007 1705

Analysis Batch: 580-23608
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA041
Lab File ID: Gx0008646.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 580-23608/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/25/2007 1727
Date Prepared: 09/25/2007 1727

Analysis Batch: 580-23608
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA041
Lab File ID: Gx0008647.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline	96	98	79 - 110	2	8		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene (Surr)	101		101		50 - 150		
Trifluorotoluene (Surr)	105		103		50 - 150		
Ethylbenzene-d10	107		107		50 - 150		
Fluorobenzene (Surr)	105		105		50 - 150		
Toluene-d8 (Surr)	105		105		50 - 150		

Calculations are performed before rounding to avoid round-off errors in calculated results.

7421

SEVERN
TRENT

STL®

Page 9 of 10

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-7421-1

Login Number: 7421

Creator: Moon, Joseph

List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 580-8173-1

SDG Number: O2 Diffusion

Job Description: 99481-Bellevue O2 Diffusion

For:

Conestoga-Rovers & Associates, Inc.

1420 80th Street SW, Suite A

Everett, WA 98203

Attention: Nick Acklam



Heather Curbow

Project Manager I

heather.curbow@testamericainc.com

12/03/2007

cc: Christine Schweigert

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TestAmerica Tacoma 5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com



Job Narrative
580-J8173-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

NWTPH_GX: The method blank for water batch 26034 had a hit of GRO analyte above the RL. The associated samples with hits above the RL were B flagged. All associated samples with hits below the RL and above 10x the RL will be reported. No further corrective action taken.

No other analytical or quality issues were noted.

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1
Sdg Number: O2 Diffusion

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
580-8173-2 Benzene	99481-MW-2	5.3	1.0	ug/L	8260B

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1
Sdg Number: O2 Diffusion

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-8173-1	99481-MW-3	Water	11/15/2007 1005	11/15/2007 1405
580-8173-2	99481-MW-2	Water	11/15/2007 1140	11/15/2007 1405

Analytical Data

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1

Sdg Number: O2 Diffusion

Client Sample ID: 99481-MW-3

Lab Sample ID: 580-8173-1

Client Matrix: Water

Date Sampled: 11/15/2007 1005

Date Received: 11/15/2007 1405

8260B BTX/MTBE

Method: 8260B

Analysis Batch: 580-26069

Instrument ID: SEA003

Preparation: 5030B

Lab File ID: MS173466.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/21/2007 2203

Final Weight/Volume: 5 mL

Date Prepared: 11/21/2007 2203

Analyte	Result (ug/L)	Qualifier	RL	RL
Benzene	<1.0		1.0	1.0
Toluene	<1.0		1.0	1.0
Ethylbenzene	<1.0		1.0	1.0
m-Xylene & p-Xylene	<2.0		2.0	2.0
o-Xylene	<1.0		1.0	1.0
Xylenes, Total	<2.0		2.0	2.0

Surrogate	%Rec	Acceptance Limits
Fluorobenzene (Surr)	99	80 - 120
Toluene-d8 (Surr)	99	85 - 120
Ethylbenzene-d10	103	80 - 120
4-Bromofluorobenzene (Surr)	102	75 - 120
Trifluorotoluene (Surr)	102	80 - 120

Analytical Data

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1

Sdg Number: O2 Diffusion

Client Sample ID: 99481-MW-2

Lab Sample ID: 580-8173-2

Client Matrix: Water

Date Sampled: 11/15/2007 1140

Date Received: 11/15/2007 1405

8260B BTX/MTBE

Method: 8260B

Analysis Batch: 580-26069

Instrument ID: SEA003

Preparation: 5030B

Lab File ID: MS173467.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 11/21/2007 2225

Final Weight/Volume: 5 mL

Date Prepared: 11/21/2007 2225

Analyte	Result (ug/L)	Qualifier	RL	RL
Benzene	5.3		1.0	1.0
Toluene	<1.0		1.0	1.0
Ethylbenzene	<1.0		1.0	1.0
m-Xylene & p-Xylene	<2.0		2.0	2.0
o-Xylene	<1.0		1.0	1.0
Xylenes, Total	<2.0		2.0	2.0
Surrogate	%Rec	Acceptance Limits		
Fluorobenzene (Surr)	100	80 - 120		
Toluene-d8 (Surr)	101	85 - 120		
Ethylbenzene-d10	106	80 - 120		
4-Bromofluorobenzene (Surr)	104	75 - 120		
Trifluorotoluene (Surr)	103	80 - 120		

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1

Sdg Number: O2 Diffusion

Method Blank - Batch: 580-26069

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 580-26069/3

Analysis Batch: 580-26069

Instrument ID: SEA003

Client Matrix: Water

Prep Batch: N/A

Lab File ID: MS173455.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/21/2007 1809

Final Weight/Volume: 5 mL

Date Prepared: 11/21/2007 1809

Analyte	Result	Qual	RL	RL
Benzene	<1.0		1.0	1.0
Toluene	<1.0		1.0	1.0
Ethylbenzene	<1.0		1.0	1.0
m-Xylene & p-Xylene	<2.0		2.0	2.0
o-Xylene	<1.0		1.0	1.0
Methyl tert-butyl ether	<1.0		1.0	1.0
Xylenes, Total	<2.0		2.0	2.0
Surrogate	% Rec	Acceptance Limits		
Fluorobenzene (Surr)	100		80 - 120	
Toluene-d8 (Surr)	102		85 - 120	
Ethylbenzene-d10	105		80 - 120	
4-Bromofluorobenzene (Surr)	105		75 - 120	
Trifluorotoluene (Surr)	96		80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1

Sdg Number: O2 Diffusion

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-26069**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 580-26069/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/21/2007 1727
Date Prepared: 11/21/2007 1727

Analysis Batch: 580-26069
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA003
Lab File ID: MS173453.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 580-26069/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/21/2007 1748
Date Prepared: 11/21/2007 1748

Analysis Batch: 580-26069
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA003
Lab File ID: MS173454.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	104	102	80 - 120	2	12		
Toluene	105	102	75 - 120	2	12		
Ethylbenzene	102	100	75 - 125	2	20		
m-Xylene & p-Xylene	104	102	75 - 130	2	20		
o-Xylene	100	99	80 - 120	2	20		
Methyl tert-butyl ether	112	115	66 - 127	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Fluorobenzene (Surr)	99		99		80 - 120		
Toluene-d8 (Surr)	101		100		85 - 120		
Ethylbenzene-d10	104		103		80 - 120		
4-Bromofluorobenzene (Surr)	104		103		75 - 120		
Trifluorotoluene (Surr)	98		95		80 - 120		

Calculations are performed before rounding to avoid round-off errors in calculated results.

O₂ Diffusion

STL®

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DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

STL8274-580 (12/02)

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 580-8173-1

SDG Number: O2 Diffusion

Login Number: 8173

Creator: Presley, Kim

List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	