



GETTLER - RYAN INC.

April 14, 2004
Job #386755

Ms. Karen Streich
ChevronTexaco Company
P.O. Box 6004
San Ramon, CA 94583

RE: Event of March 13, 2004
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0126
12607 NE 85th Street
Kirkland, Washington

Dear Ms. Streich:

This report documents the groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical reports are attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

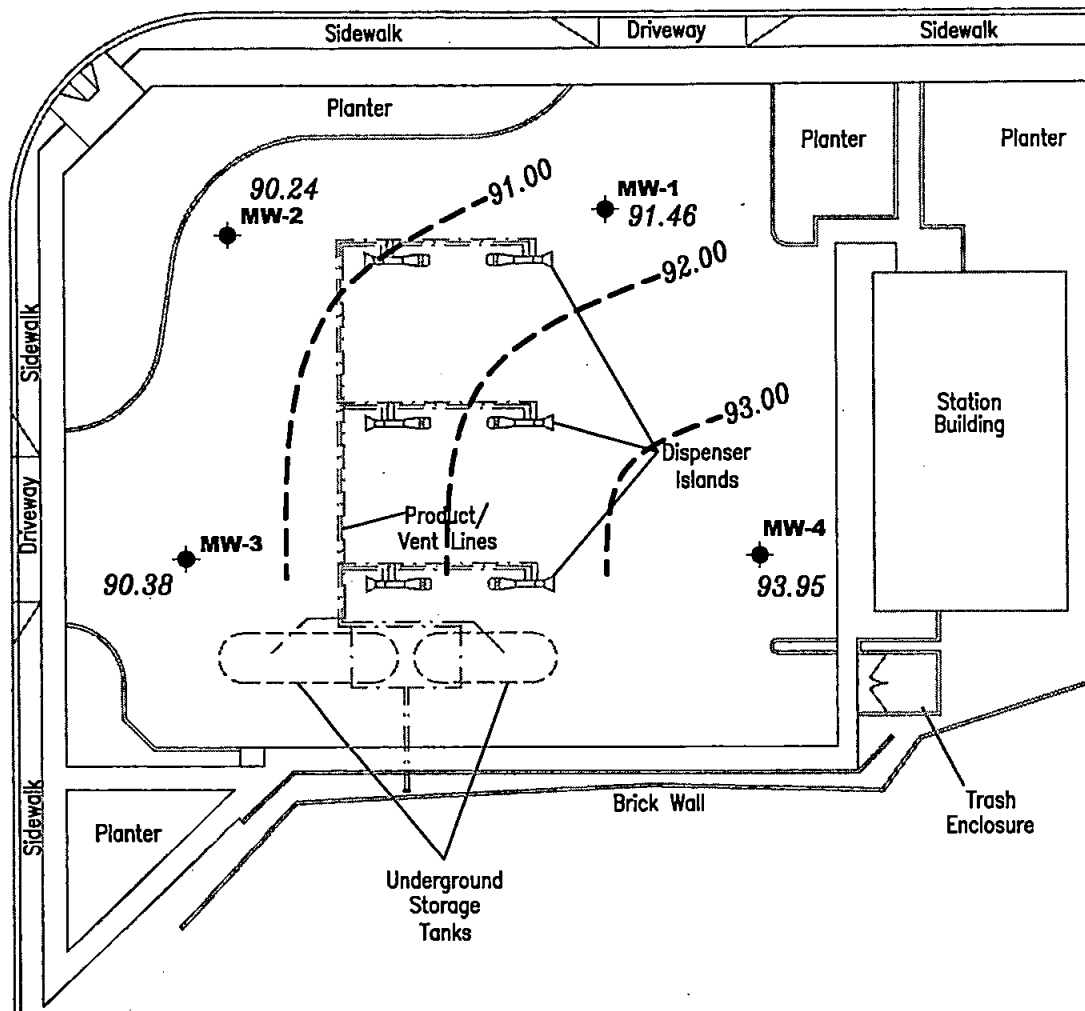
Deanna L. Harding
Project Coordinator

Hagop Kevork
Professional Engineer

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

NE 85th STREET

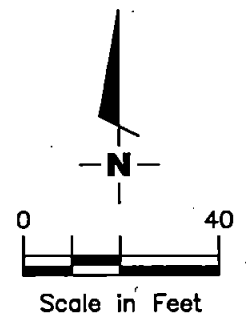
126th AVENUE NE



EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary datum
- 99.99 - Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.03 Ft./Ft.



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Chevron Service Station #9-0126
 12607 NE 85th Street
 Kirkland, Washington

FIGURE

1

PROJECT NUMBER
 386755

REVIEWED BY

DATE
 March 13, 2004

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-0126\Q04-9-0126.DWG | Layout Tab: Pot1

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0126
12607 NE 85th Street
Kirkland, Washington

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-1												
04/20/01	98.85	6.40	92.45	--	--	--	--	--	--	--	--	--
06/26/01	98.85	7.19	91.66	559 ¹	<750 ¹	40,800	5,560	759	2,180	8,310	284/<5.00 ²	0.00405 ³
09/10/01	98.85	7.41	91.44	573 ^{1,5}	<500 ¹	28,800	4,240	334	1,820	5,410	<100/<5.00 ⁶	--
12/04/01	98.85	6.06	92.79	417 ^{1,5}	<500 ¹	26,100	3,120	514	1,480	5,670	59.6/<5.00 ⁶	--
03/07/02	NP	98.85	6.75	92.10	1,500 ¹	<750 ¹	39,000	2,500	880	1,500	<20	--
03/03/03	NP	98.85	6.68	92.17	580 ¹	<250 ¹	16,000	1,800	380	1,100	<10	--
03/13/04	NP	98.85	7.39	91.46	840 ¹	<200 ¹	27,000	3,100	710	1,700	140/<3 ²	--
MW-2												
04/20/01	97.68	8.80	88.88	--	--	--	--	--	--	--	--	--
06/26/01	97.68	7.54	90.14	<250 ¹	<750 ¹	<50.0	0.765	<0.500	1.04	3.74	1.19/<5.00 ²	<0.00100 ³
09/10/01	97.68	7.64	90.04	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	2.69/<5.00 ⁶	--
12/04/01	97.68	7.52	90.16	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	2.08	--
03/07/02	NP	97.68	7.42	90.26	<250 ¹	<750 ¹	<50	6.4	<0.50	<0.50	<1.5	<2.5
03/03/03	NP	97.68	7.50	90.18	<250 ¹	<250 ¹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/13/04	NP	97.68	7.44	90.24	<77 ¹	<96 ¹	<50	<0.2	<0.2	<0.2	0.8/<0.5 ²	--
MW-3												
04/20/01	99.03	DRY	--	--	--	--	--	--	--	--	--	--
06/26/01 ⁴	99.03	8.52	90.51	<250 ¹	<750 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00/<5.00 ²	<0.00100 ³
09/10/01	99.03	8.66	90.37	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
12/04/01	99.03	8.71	90.32	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
03/07/02	NP	99.03	8.56	90.47	<250 ¹	<750 ¹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03	NP	99.03	8.83	90.20	<250 ¹	<250 ¹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/13/04	NP	99.03	8.65	90.38	<77 ¹	<96 ¹	<50	<0.2	<0.2	<0.2	<0.3	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0126
12607 NE 85th Street
Kirkland, Washington

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-4												
04/20/01	100.00	6.30	93.70	--	--	--	--	--	--	--	--	--
06/26/01	100.00	6.14	93.86	<250 ¹	<750 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00/<5.00 ²	<0.00100 ³
09/10/01	100.00	6.68	93.32	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
12/04/01	100.00	5.71	94.29	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
03/07/02	NP	100.00	5.82	94.18	<250 ¹	<750 ¹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/03/03	NP	100.00	6.15	93.85	<250 ¹	<250 ¹	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/13/04	NP	100.00	6.05	93.95	<75 ¹	<94 ¹	<50	<0.2	<0.2	<0.2	<0.6	<0.3
TRIP BLANK												
06/26/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
09/10/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
12/04/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
03/07/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/03/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA												
03/13/04	--	--	--	--	--	<50	<0.2	<0.2	<0.2	<0.6	<0.3	--

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. LEAD
Standard Laboratory Reporting Limits:	250	250	50	0.2	0.2	0.2	0.6	0.3	0.00100
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000	20	--
Current Method:	NWTPH-D + Extended		NWTPH-G and EPA 8021						EPA 6020

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0126
12607 NE 85th Street
Kirkland, Washington

EXPLANATIONS:

Groundwater monitoring data prior to June 26, 2001 was provided by Delta Environmental Consultants, Inc..

TOC = Top of Casing	B = Benzene	(ppm) = Parts per million
(ft.) = Feet	T = Toluene	-- = Not Measured/Not Analyzed
DTW = Depth to Water	E = Ethylbenzene	NP = No purge
GWE = Groundwater Elevation	X = Xylenes	MTCA = Model Toxics Control Act Cleanup Regulations
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	[WAC 173-340-720(2)(a)(I), as amended 02/01].
TPH-O = Total Petroleum Hydrocarbons as Oil	D. Lead = Dissolved Lead	
TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppb) = Parts per billion	

* TOC elevations have been surveyed in feet relative to an arbitrary datum.

¹ TPH-D and TPH-O with silica gel cleanup.

² MTBE by EPA Method 8260.

³ Laboratory report indicates the sample was laboratory filtered and not in the field as required by the methodology.

⁴ Well re-development performed.

⁵ Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.

⁶ MTBE by EPA Method 8260 was completed outside of the recommended hold time.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used for all samples. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: **ChevronTexaco #9-0126**Job Number: **386755**Site Address: **12607 Ne 8Th Street**Event Date: **3-13-04** (inclusive)City: **Kirkland, WA**Sampler: **Ben Newton**

Well ID

MW - 1Date Monitored: **3/13/04**Well Condition: **O.K.**

Well Diameter

2 in.

Total Depth

16.78 ft.

Depth to Water

7.39 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other: _____

Sampling Equipment:

Disposable Bailer
Pressure Bailer
Discrete Bailer
Other: _____

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description:
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge):

800

Weather Conditions:

Sunny

Sample Time/Date:

815 13/13/04

Water Color:

ClearOdor: **YES**

Purging Flow Rate:

gpm.

Sediment Description:

Did well de-water?

No

If yes, Time:

Volume: _____ gal.

Time
(2400 hr.)Volume
(gal.)

pH

Conductivity
(u mhos/cm)Temperature
(C/F)D.O.
(mg/L)ORP
(mV)**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW - 1	6 x vva vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE 8260
MW - 1	2 x amber	YES	HCL	LANCASTER	TPH-Dx w/sg

COMMENTS:

No Purge

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: **ChevronTexaco #9-0126**
Site Address: **12607 Ne 8Th Street**
City: **Kirkland, WA**

Job Number: **386755**
Event Date: **3-13-04** (inclusive)
Sampler: **Ben Newton**

Well ID: **MW - 2**
Well Diameter: **2** in.
Total Depth: **15.59** ft.
Depth to Water: **7.44** ft.

Date Monitored: **3/13/04**

Well Condition: **O.K.**

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer ☒
Stainless Steel Bailer ☒
Stack Pump ☒
Suction Pump ☒
Grundfos ☒
Other: ☒

Sampling Equipment:

Disposable Bailer ☒
Pressure Bailer ☒
Discrete Bailer ☒
Other: ☒

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge): **830** Weather Conditions: **Sunny**
Sample Time/Date: **845 13/13/04** Water Color: **clear** Odor: **no**
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? **No** If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW - 2	6 x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE 8260
MW - 2	2 x amber	YES	HCL	LANCASTER	TPH-Dx w/sq

COMMENTS: **No Purge**

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: **ChevronTexaco #9-0126**
Site Address: **12607 Ne 8Th Street**
City: **Kirkland, WA**

Job Number: **386755**
Event Date: **3-13-04** (inclusive)
Sampler: **Ben Newton**

Well ID: **MW - 3**
Well Diameter: **2** in.
Total Depth: **13.99** ft.
Depth to Water: **8.65** ft.

Date Monitored: **3/13/04**

Well Condition: **OK**

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer ☒
Stainless Steel Bailer ☒
Stack Pump ☒
Suction Pump ☒
Grundfos ☒
Other: ☒

Sampling Equipment:

Disposable Bailer ☒
Pressure Bailer ☒
Discrete Bailer ☒
Other: ☒

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge): **9:00** Weather Conditions: **Sunny**
Sample Time/Date: **9:15 13/13/04** Water Color: **clear** Odor: **no**
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? **No** If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW - 3	6 x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE 8260
MW - 3	2 x amber	YES	HCL	LANCASTER	TPH-Dx w/sq

COMMENTS: **No Purge**

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-0126Job Number: 386755Site Address: 12607 Ne 8Th StreetEvent Date: 3-13-04 (inclusive)City: Kirkland, WASampler: Ben NewtonWell ID: MW - 4
Well Diameter: 2 in.
Total Depth: 15.01 ft.
Depth to Water: 6.05 ft.Date Monitored: 3/13/04Well Condition: O.K.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:

Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Other: _____

Sampling Equipment:

Disposable Bailer ☒
Pressure Bailer _____
Discrete Bailer _____
Other: _____

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbent Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge): 930Weather Conditions: Partly SunnySample Time/Date: 945 13/13/04Water Color: Clear Odor: no

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? No

If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW - 4	6 x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE <u>8260</u>
MW - 4	2 x amber	YES	HCL	LANCASTER	TPH-Dx w/sg

COMMENTS: No Purge

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____

Chevron Northwest Region Analysis Request/Chain of Custody



Acct. #: 10906 For Lancaster Laboratories use only
Sample #: 4236041-45

SCR#:

Group # 888603

Secor MTI Project #: 90126.01

Facility #: SS#9-0126 G-R#386755
Site Address: 12607 NE 8th Avenue, KIRKLAND, WA
Chevron PM: MTI Lead Consultant: SECOR JJ
Consultant/Office: G.R. Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
Consultant Prj. Mgr: Deanne L. Harding (deanne@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Ben W. Newton
Service Order #: _____ ☐ Non SAR:

Matrix

Soil ☐ Potable ☐ NIPDES ☐
Water ☐ Oil ☐ Air ☐

Total Number of Containers

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO₃ B = NaOH
S = H₂SO₄ O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☒ Confirm all hits by 8260
☐ Run _____ oxy s on highest hit
☐ Run _____ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	TPH G	TPH D	Lead Total	VPHEPH	NWTPH HClID	quantification
QA	3-13-04	—	X			X			2	X			X					
MW-1		815	X			X			8	X			X	X				
MW-2		845	X			X			8	X			X	X				
MW-3		915	X			X			8	X			X	X				
MW-4		945	X			X			8	X			X	X				

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk _____ Other.

Relinquished by: Ben Newton

Date 3-16-04 Time 1300

Received by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

Relinquished by Commercial Carrier:

UPS FedEx Other _____

Temperature Upon Receipt 2, 3, 3, 2, 2.5, 3, 4.5

Received by:

Kathy Binkley 3-17-04 0930
Custody Seals Intact? Yes ☒ No ☐

Date Time



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-856-2300 Fax: 717-856-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o SECOR
2301 Leghorn Street
Mountainview CA 94043

650-691-0131

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 888603. Samples arrived at the laboratory on Wednesday, March 17, 2004. The PO# for this group is 99011184 and the release number is MTI.

Client Description

QA Water Sample
MW-1 Grab Water Sample
MW-2 Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample

Lancaster Labs Number

4236041
4236042
4236043
4236044
4236045

1 COPY TO
ELECTRONIC
COPY TO
ELECTRONIC
COPY TO

Secor Inter. C/O Gettler-Ryan
Gettler-Ryan

SECOR International

Attn: Deanna L. Harding
Attn: Cheryl Hansen

Attn: Madeline Montilla



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Tina L. Thoman".

Tina L. Thoman
Senior Chemist, Coordinator

Lancaster Laboratories Sample No. WW 4236041

QA Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/18/2004 23:16	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/18/2004 23:16	Steven A Skiles	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/18/2004 23:16	Steven A Skiles	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories Sample No. WW 4236042

MW-1 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 08:15 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	840.	160.	ug/l	2
02096	Heavy Range Organics	n.a.	N.D.	200.	ug/l	2
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	3,100.	5.0	ug/l	25
00777	Toluene	108-88-3	710.	5.0	ug/l	25
00778	Ethylbenzene	100-41-4	1,700.	5.0	ug/l	25
00779	Total Xylenes	1330-20-7	4,400.	15.	ug/l	25
00780	Methyl tert-Butyl Ether	1634-04-4	140.	7.5	ug/l	25
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	27,000.	1,300.	ug/l	25
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	3.	ug/l	5
MTBE was detected on the GC/PID. False positives are possible with this detector and GC/MS analysis did not confirm the presence of MTBE. Therefore, the positive result on the GC/PID is attributed to the presence of a false positive.						

The reporting limit for methyl tertiary butyl ether was raised due to the level of non-target compounds.

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/25/2004 23:22	Devin M Hetrick	2
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2004 00:21	Steven A Skiles	25
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/19/2004 00:21	Steven A Skiles	25

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 4236042

MW-1 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 08:15 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK1						
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/24/2004 17:58	Carrie J McCullough	5
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2004 00:21	Steven A Skiles	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/24/2004 17:58	Carrie J McCullough	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	2	03/25/2004 02:15	Eryn E Landis	1

Lancaster Laboratories Sample No. WW 4236043

MW-2 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 08:45 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
The spike recovery of the LCSD associated with this sample is above the QC limit. Since the recovery is high and the no target analytes were detected in the sample, the results are reported. The spike recovery of the LCS associated with this sample is within the QC limits.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	0.8	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
MTBE was detected on the GC/PID. False positives are possible with this detector and GC/MS analysis did not confirm the presence of MTBE. Therefore, the positive result on the GC/PID is attributed to the presence of a false positive.						

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/20/2004 08:48	Tracy A Cole	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2004 00:54	Steven A Skiles	1

= Laboratory Method Detection Limit exceeded target detection limit

N.D. = Not detected at or above the Reporting Limit



Analysis Report

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Lancaster Laboratories Sample No. WW 4236043

MW-2 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 08:45 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK2						
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx -	1	03/19/2004 00:54	Steven A Skiles	1
		8015B Mod.				
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/24/2004 18:25	Carrie J McCullough	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2004 00:54	Steven A Skiles	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/24/2004 18:25	Carrie J McCullough	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	1	03/19/2004 01:00	Felix C Arroyo	1
		6/97				



Analysis Report

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Lancaster Laboratories Sample No. WW 4236044

MW-3 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 09:15 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
	The spike recovery of the LCSD associated with this sample is above the QC limit. Since the recovery is high and the no target analytes were detected in the sample, the results are reported. The spike recovery of the LCS associated with this sample is within the QC limits.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/20/2004 09:13	Tracy A Cole	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2004 01:27	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/19/2004 01:27	Steven A Skiles	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2004 01:27	Steven A Skiles	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	03/19/2004 01:00	Felix C Arroyo	1

#=Laboratory MethodDetection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories Sample No. WW 4236045

MW-4 Grab Water Sample

Facility# 90126 Job# 386755 MTI# 90126.01

12607 NE 8th Ave. - Kirkland, WA

Collected: 03/13/2004 09:45 by BWN

Account Number: 10906

Submitted: 03/17/2004 09:30

Reported: 03/29/2004 at 16:32

Discard: 04/29/2004

ChevronTexaco c/o SECOR

2301 Leghorn Street

Mountainview CA 94043

KIRK4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
The spike recovery of the LCSD associated with this sample is above the QC limit. Since the recovery is high and the no target analytes were detected in the sample, the results are reported. The spike recovery of the LCS associated with this sample is within the QC limits.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/20/2004 09:38	Tracy A Cole	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/19/2004 02:00	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/19/2004 02:00	Steven A Skiles	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/19/2004 02:00	Steven A Skiles	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	03/19/2004 01:00	Felix C Arroyo	1

= Laboratory Method Detection Limit exceeded target detection limit

N.D. = Not detected at or above the Reporting Limit

Quality Control Summary

Client Name: ChevronTexaco c/o SECOR
Reported: 03/29/04 at 04:32 PM

Group Number: 888603

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 040780005A	Sample number(s): 4236043-4236045							
Diesel Range Organics	N.D.	0.080	mg/l	86	115*	53-107	29*	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 04078A55A	Sample number(s): 4236041-4236045							
Benzene	N.D.	0.2	ug/l	94	103	79-123	9	30
Toluene	N.D.	0.2	ug/l	95	104	82-119	9	30
Ethylbenzene	N.D.	0.2	ug/l	93	103	81-119	10	30
Total Xylenes	N.D.	0.6	ug/l	95	105	82-120	10	30
Methyl tert-Butyl Ether	N.D.	0.3	ug/l	91	98	75-125	7	30
TPH by NWTPH-Gx waters	N.D.	0.048	mg/l	102	84	70-130	20	30
Batch number: 040840005A	Sample number(s): 4236042							
Diesel Range Organics	N.D.	0.080	mg/l	80	81	53-107	2	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: P040842AA	Sample number(s): 4236042-4236043							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101		77-127		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP CONC	DUP RPD	Dup RPD Max
Batch number: 04078A55A	Sample number(s): 4236041-4236045							
Benzene	101		67-136					
Toluene	103		78-129					
Ethylbenzene	105		75-133					
Total Xylenes	105		78-130					
Methyl tert-Butyl Ether	94		59-148					
TPH by NWTPH-Gx waters	85		63-154					
Batch number: P040842AA	Sample number(s): 4236042-4236043							
Methyl Tertiary Butyl Ether	104	104	69-134	0	30			

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

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**Analysis Report**

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Page 2 of 2

Quality Control Summary

Client Name: ChevronTexaco c/o SECOR
 Reported: 03/29/04 at 04:32 PM

Group Number: 888603

Surrogate Quality Control

Batch number: 040780005A
 Orthoterphenyl

4236043	96
4236044	109
4236045	98
Blank	105
LCS	108
LCSD	131

Limits: 50-150

Analysis Name: BTEX, MTBE (8021)

Batch number: 04078A55A

	Trifluorotoluene-P	Trifluorotoluene-F
4236041	90	91
4236042	89	92
4236043	89	92
4236044	88	92
4236045	88	92
Blank	88	92
LCS	89	92
LCSD	89	91
MS	88	90

Limits: 66-136 57-146

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel

Batch number: 040840005A

Orthoterphenyl

4236042	99
Blank	81
LCS	85
LCSD	86

Limits: 50-150

Analysis Name: MTBE by GC/MS (water)

Batch number: P040842AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4236042	101	98	96	95
4236043	103	98	89	95
Blank	101	99	96	96
LCS	102	100	96	97
MS	101	100	96	96
MSD	102	99	96	96

Limits: 81-120 82-112 85-112 83-113

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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April 16, 2004
G-R #386755

TO: Ms. Jessica Jenkins
Secor International, Inc.
7730 SW Mohawk Street
Tualatin, Oregon 97062

Release 35338
Chevron Station # 9-0126
Kirkland

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station**
#9-0126
12607 NE 85th Street
Kirkland, Washington
MTI: 90126.01

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 14, 2004	Groundwater Monitoring and Sampling Report Event of March 13, 2004

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **May 10, 2004**, at which time the final report will be distributed to the following:

cc: WDOE, Northwest Regional Office, 3190 160th Ave., SE, Bellevue, WA 98008
Ms. Madelaine Montilla, Secor International Inc, 2301 Leghorn Street, Mountain View CA, 94043

☒ Current Site Check List included.

Enclosure

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cm
6-1-04

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6747 Sierra Court, Suite J • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • Rancho Cordova, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • Petaluma, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

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