

SIT 2.3.1



GETTLER-RYAN INC.

TRANSMITTAL

February 6, 2001
G-R #: 386750

TO: Mr. Matt Miller
Delta Environmental Consultants, Inc.
1200-112th Avenue N. E., Suite C-146,
Bellevue, Washington 98004-3769

⇒ Release # 583079
SEATTLE HOUSING AUTHORITY
FORMER CHEVRON 20-9335
SEATTLE
UST # 583072

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

RE: **Chevron Service Station**
#20-9335
1225 North 45th Street
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 26, 2001	Groundwater Monitoring and Sampling Report Event of December 16, 2000

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 **February 16, 2001**, at which time the final report will be distributed to the following:

- Mr. Brett Hunter, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583
- Mr. John Wietfeld, WDOE Northwest Region, 160th Avenue S.E., Bellevue, WA 98008

Current Site Check List included.

Enclosure



trans/20-9335-BH



GETTLER - RYAN INC.

January 26, 2001
Job #386750

Mr. Brett Hunter
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: **Event of December 16, 2000**
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #20-9335
1225 North 45th Street
Seattle, Washington

Dear Mr. Hunter:

This report documents the most recent 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 any of 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 as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). Purge water was treated by filtration through granular activated carbon and was subsequently discharged. The field data sheets for this event are attached. The samples were analyzed by North Creek Analytical, Inc. Analytical results are presented in Table 1 and a Concentration Map is included as Figure 2. 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

Stephen J. Carter
Senior Geologist

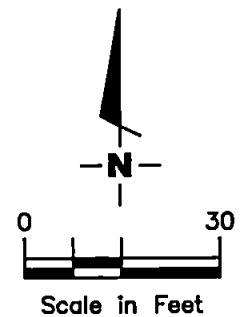
Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

EXPLANATION

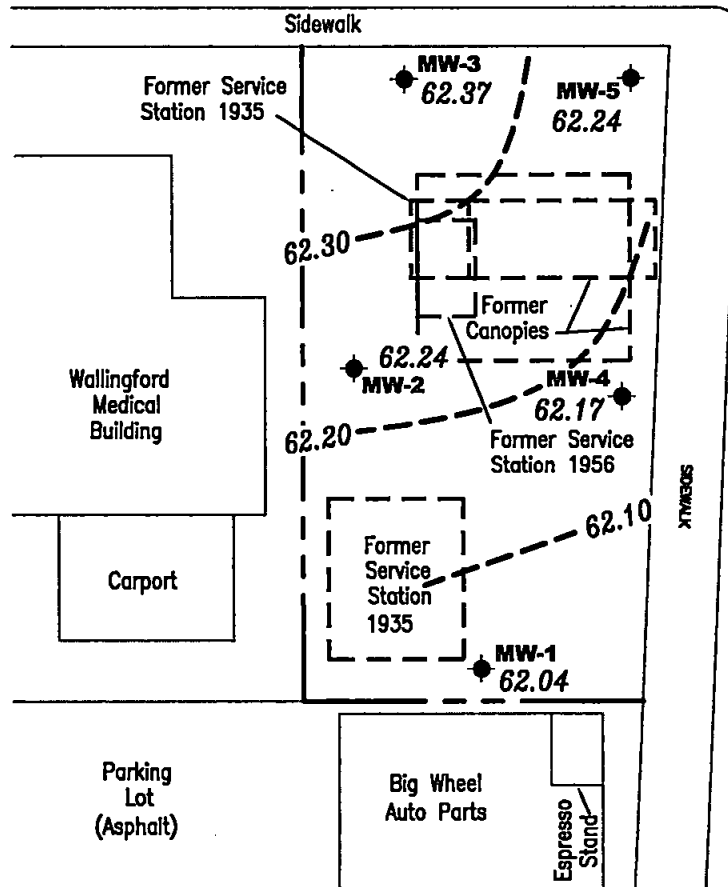
- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary datum
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.



Approximate groundwater flow direction at a gradient of 0.003 to 0.004 Ft./Ft.



NORTH 45TH STREET



STONE WAY SOUTH

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
Former Chevron Service Station #20-9335
1225 North 45th Street
Seattle, Washington

FIGURE

1

PROJECT NUMBER
386750

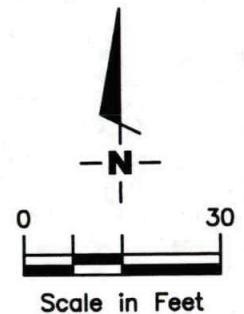
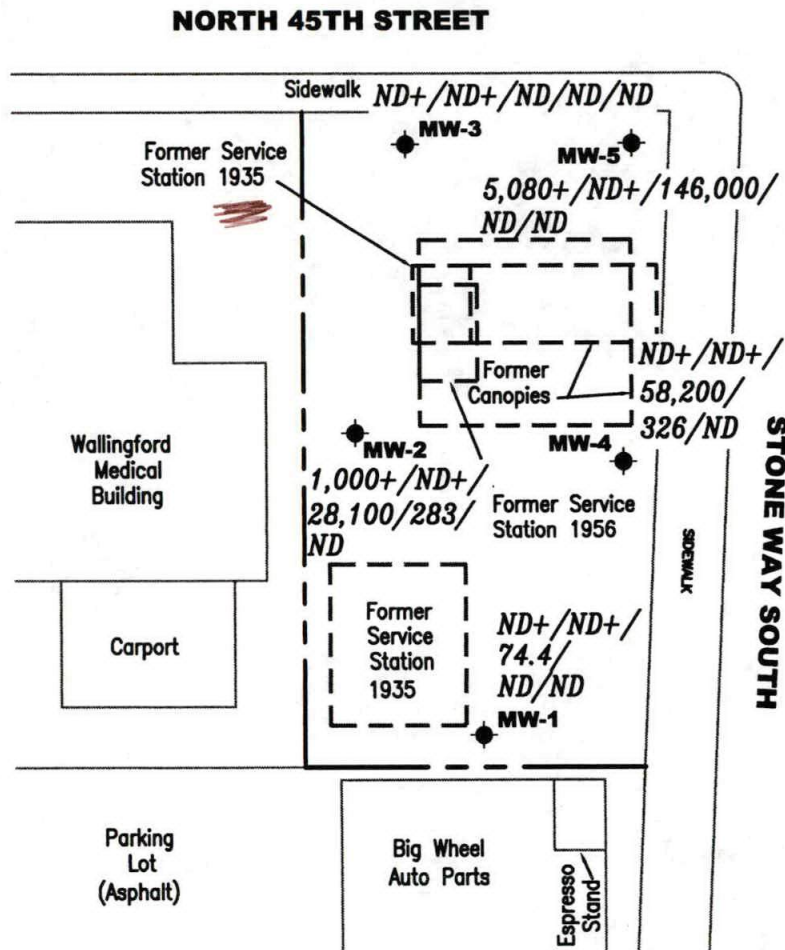
REVIEWED BY

DATE
December 16, 2000

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- A/B/C/
D/E Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene/MTBE concentrations in ppb
- ND Not Detected
- + w/silica gel clean-up



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

CONCENTRATION MAP
Former Chevron Service Station #20-9335
1225 North 45th Street
Seattle, Washington

FIGURE
2

PROJECT NUMBER
386750

REVIEWED BY

DATE
December 16, 2000

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
1225 North 45th Street
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	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												
97.95	10/11/00 ¹	34.50	63.45	--	--	--	--	--	--	--	--	--
	12/16/00	35.91	62.04	ND ^{2,3}	ND ^{2,3}	74.4	ND	ND	ND	ND	ND	ND ⁴
MW-2												
98.70	10/11/00 ¹	34.50	64.20	--	--	--	--	--	--	--	--	--
	12/16/00	36.46	62.24	1,000 ³	ND ³	28,100	283	2,560	693	4,020	ND ²	0.00194 ⁴
MW-3												
98.76	10/11/00 ¹	34.00	64.76	--	--	--	--	--	--	--	--	--
	12/16/00	36.39	62.37	ND ³	ND ³	ND	ND	0.612	ND	1.95	ND	ND ⁴
MW-4												
98.52	10/11/00 ¹	35.00	63.52	--	--	--	--	--	--	--	--	--
	12/16/00	36.35	62.17	ND ^{2,3}	ND ^{2,3}	58,200	326	5,520	1,430	8,520	ND ²	0.0123 ⁴
MW-5												
99.42	10/11/00 ¹	34.50	64.92	--	--	--	--	--	--	--	--	--
	12/16/00	37.18	62.24	5,080 ³	ND ³	146,000 ✓	ND ²	15,100	4,160	24,100	ND ²	0.0200 ⁴

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
1225 North 45th Street
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	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)
-----------------------	------	--------------	--------------	----------------	----------------	----------------	------------	------------	------------	------------	---------------	------------------

Trip Blank

TB-LB	12/16/00	--	--	--	--	ND	ND	ND	ND	ND	ND	--
-------	----------	----	----	----	----	----	----	----	----	----	----	----

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. Lead
Current Laboratory Reporting Limits:	250	750	50.0	0.500	0.500	0.500	1.00	5.00	0.00100
MTCA Method A Cleanup Levels:	1,000	1,000	1,000	5.0	40	30	20	--	--
Current Method:	WTPH-D + Extended			WTPH-G and EPA 8021					EPA 6020

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station # 20-9335
1225 North 45th Street
Seattle, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to December 16, 2000, were compiled from reports prepared by Delta Environmental Consultants Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-D = Total Petroleum Hydrocarbons as Diesel (Diesel Range Hydrocarbons)

TPH-O = Total Petroleum Hydrocarbons as Oil (Heavy Range Oil Hydrocarbons)

TPH-G = Total Petroleum Hydrocarbons as Gasoline (Gasoline Range Hydrocarbons)

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

D. Lead = Dissolved Lead

(ppb) = Parts per billion

(ppm) = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 12/93].

* TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.

¹ Data provided by Delta Environmental Consultants, Inc.

² Detection limit raised. Refer to analytical reports.

³ TPH-D and TPH-O with silica-gel cleanup.

⁴ Filtered at the laboratory.

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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured 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.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
 Facility # 20-9335
 Address: 1225 N. 45th St.
 City: Seattle, WA

Job #: 386750
 Date: 12-16-00
 Sampler: BWN

Well ID MW 1 Well Condition: ok
 Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed 0 (Gallons)
 Total Depth 42.00 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 35.91 ft. 6" = 1.50 12" = 5.80
6.09 x VF .17 = .1 x 3 (case volume) = Estimated Purge Volume: 3 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 14:00 Weather Conditions: Rain
 Sampling Time: 14:15 Water Color: tan Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{C}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:03	1	6.89	269	12.4			
14:06	2	6.86	261	12.3			
14:09	3	6.85	258	12.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 1	3 VORVIAL	Y	HC	SEQUOIA - NCA	TPH(G)/btex/mtbe
MW 1	1 Amber L		NP		TPH(D) + EXT
MW 1	1 500ml PL.		NP		Dissolved Lead

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
 Facility # 20-9335
 Address: 1225 N. 45th St.
 City: Seattle, WA

Job#: 386750
 Date: 12-16-00
 Sampler: BWN

Well ID MW 2 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth 42.00 ft.
 Depth to Water 36.46 ft.
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80
5.54 x VF 117 = 649 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 14:25 Weather Conditions: Rain
 Sampling Time: 14:40 Water Color: gray Odor: yes
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:30	1	6.86	281	12.5			
14:33	2	6.81	276	12.4			
14:36	3	6.79	271	12.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 2	3 VOA/VIAL	Y	HCl	SECONA NCA	TPH(G)/btex/mtbe
MW 2	1 Amber L	↓	NP	↓	TPH (LO) + Ext
MW 2	1 500ml Pl.	↓	NP	↓	Dissolved Lead

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Chevron 20-9335
 Address: 1225 N. 45th St.
 City: Seattle, WA

Job#: 386750
 Date: 12-16-00
 Sampler: BWN

Well ID: MW 3
 Well Diameter: 2 in.
 Total Depth: 45.00 ft.
 Depth to Water: 36.39 ft.

Well Condition: OK
 Hydrocarbon Thickness: Ø (feet)
 Amount Bailed (product/water): Ø (Gallons)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

8.61 x VF .17 = 1.46 x 3 (case volume) = Estimated Purge Volume: 4 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 15:15
 Sampling Time: 15:35
 Purging Flow Rate: _____ gpm.
 Did well de-water? NO

Weather Conditions: Rain
 Water Color: tan Odor: NO
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>15:19</u>	<u>1.4</u>	<u>6.79</u>	<u>271</u>	<u>12.5</u>			
<u>15:23</u>	<u>2.7</u>	<u>6.77</u>	<u>268</u>	<u>12.4</u>			
<u>15:27</u>	<u>4</u>	<u>6.72</u>	<u>261</u>	<u>12.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW 3</u>	<u>3 VOAIAL</u>	<u>Y</u>	<u>HCl</u>	<u>SECOGA - NZA</u>	<u>TPH(GI)/btex/mtbe</u>
<u>MW 3</u>	<u>1 Amber L</u>	<u>↓</u>	<u>NO</u>	<u>↓</u>	<u>TPH(LD) + Ext</u>
<u>MW 3</u>	<u>1 500mL pl.</u>	<u>↓</u>	<u>NO</u>	<u>↓</u>	<u>Dissolved Lead</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
 Facility # 20-9335
 Address: 1225 N. 45th St.
 City: Seattle, WA

Job#: 386750
 Date: 12-16-00
 Sampler: BWN

Well ID MW 4 Well Condition: ok
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (Gallons) Ø
 Total Depth 42.00 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 36.35 ft. Factor (VF) 6" = 1.50 12" = 5.80
5.65 x VF 1.7 = 1 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 14:50
 Sampling Time: 15:05
 Purging Flow Rate: _____ gpm.
 Did well de-water? no

Weather Conditions: Rain
 Water Color: gray Odor: yes
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:53	1	6.78	281	12.7			
14:56	2	6.74	276	12.4			
14:59	3	6.75	273	12.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 4	3 VOAVIAL	Y	PC	SEEDOR NCA	TPH(GI)/btex/mtbe
MW 4	1 Amber L	↓	NP	↓	TPH(D) + Ext
MW 4	1 500ml PL.	↓	NP	↓	Dissolved Lead

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
 Facility # 20-9335
 Address: 1225 N. 45th St.
 City: Seattle, WA

Job#: 386750
 Date: 12-16-00
 Sampler: BWN

Well ID MW 5 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
 Total Depth 42.00 ft.
 Depth to Water 37.18 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

4.82 x VF .17 = .8 x 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 15:45 Weather Conditions: Rain
 Sampling Time: 16:00 Water Color: H. gray Odor: NO
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 5	3 VORVIAL	Y	HQ	SEBATA NCA	TPH(GI)/btex/mtbe
MW 5	1 Amber L	↓	NP	↓	TPH(CD) Ext
MW 5	1 500ml Pl	↓	NP	↓	Dissolved Lead

COMMENTS: _____

fax copy of Lab Report and COC to Chevron Contact: Yes No 6020461 Chain-of-Custody-Record

Chevron Products Co.
 P.O. BOX 6004
 39000 Ramon, CA 94583
 AX (925)842-8370

Chevron Facility Number #20-9335
 Facility Address 1225 N. 45TH ST., SEATTLE, WA
 Consultant Project Number 386750
 Consultant Name Gettler-Ryan Inc
 Address 6747 Sierra Court, Suite G, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. BRETT HUNTER
 (Phone) 925-842-8695
 Laboratory Name North Creek Analytical
 Laboratory Service Order _____
 Laboratory Service Code _____
 Samples Collected by (Name) Ben Newton
 Signature Ben Newton

State Method: CA OR WA NW Series CO UT

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Chertrock	Sample Preservation	Date/Time	BTX/MTBE/TPH GAS (8020 + 8015)	BTX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxyaromatics (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (8320)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Mn	BTX (8020)	BTX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended w/ silica-gel Dissolved Lead	Remarks * Please filter for Dissolved Lead *	
1B LB	1	W	HCl	12:16:00	X														
MW1	5			14:15	X												X	X	02 mtbe by
MW2	5			14:40	X												X	X	03 8260 on
MW3	5			15:35	X												X	X	04 all 8020
MW4	5			15:05	X												X	X	05 mtbe
MW5	5	↓	↓	16:00	X												X	X	06 <i>DN</i>

Relinquished By (Signature) <u>Ben Newton</u>	Organization <u>GR Inc</u>	Date/Time <u>12/18/00 11:15</u>	Received By (Signature) <u>Monica DeLuis</u>	Organization <u>NCA</u>	Date/Time <u>12/19 10:15</u>	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N	

< 0 w/n



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B0L0461-01	Water	12/16/00 12:00	12/19/00 10:15
MW1	B0L0461-02	Water	12/16/00 14:15	12/19/00 10:15
MW2	B0L0461-03	Water	12/16/00 14:40	12/19/00 10:15
MW3	B0L0461-04	Water	12/16/00 15:35	12/19/00 10:15
MW4	B0L0461-05	Water	12/16/00 15:05	12/19/00 10:15
MW5	B0L0461-06	Water	12/16/00 16:00	12/19/00 10:15

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Robert Greer, Project Manager

**North Creek Analytical, Inc.
 Environmental Laboratory Network**



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB LB (B0L0461-01) Water Sampled: 12/16/00 12:00 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	81.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	88.1 %	50-150			"	"	"	"	
MW1 (B0L0461-02) Water Sampled: 12/16/00 14:15 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	74.4	50.0	ug/l	1	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.8 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	"	"	
MW2 (B0L0461-03) Water Sampled: 12/16/00 14:40 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	28100	5000	ug/l	100	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	283	50.0	"	"	"	"	"	"	
Toluene	2560	50.0	"	"	"	"	"	"	
Ethylbenzene	693	50.0	"	"	"	"	"	"	
Xylenes (total)	4020	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	92.7 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3 (BOL0461-04) Water Sampled: 12/16/00 15:35 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.612	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.95	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	80.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	91.5 %	50-150			"	"	"	"	
MW4 (BOL0461-05) Water Sampled: 12/16/00 15:05 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	58200	10000	ug/l	200	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	326	100	"	"	"	"	"	"	
Toluene	5520	100	"	"	"	"	"	"	
Ethylbenzene	1430	100	"	"	"	"	"	"	
Xylenes (total)	8520	200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	99.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	50-150			"	"	"	"	
MW5 (BOL0461-06) Water Sampled: 12/16/00 16:00 Received: 12/19/00 10:15									
Gasoline Range Hydrocarbons	146000	50000	ug/l	1000	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	500	"	"	"	"	"	"	
Toluene	15100	500	"	"	"	"	"	"	
Ethylbenzene	4160	500	"	"	"	"	"	"	
Xylenes (total)	24100	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5000	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B0L0461-02) Water Sampled: 12/16/00 14:15 Received: 12/19/00 10:15									
Diesel Range Hydrocarbons	ND	0.281	mg/l	1	0L21010	12/21/00	12/24/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.844	"	"	"	"	"	"	
Surrogate: 2-FBP	53.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	63.3 %	50-150			"	"	"	"	
MW2 (B0L0461-03) Water Sampled: 12/16/00 14:40 Received: 12/19/00 10:15									
Diesel Range Hydrocarbons	1.00	0.250	mg/l	1	0L21010	12/21/00	12/24/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	66.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	61.3 %	50-150			"	"	"	"	
MW3 (B0L0461-04) Water Sampled: 12/16/00 15:35 Received: 12/19/00 10:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	0L21010	12/21/00	12/24/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	55.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	63.2 %	50-150			"	"	"	"	
MW4 (B0L0461-05) Water Sampled: 12/16/00 15:05 Received: 12/19/00 10:15									
Diesel Range Hydrocarbons	ND	0.470	mg/l	1	0L21010	12/21/00	12/24/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	1.41	"	"	"	"	"	"	
Surrogate: 2-FBP	58.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	60.0 %	50-150			"	"	"	"	
MW5 (B0L0461-06) Water Sampled: 12/16/00 16:00 Received: 12/19/00 10:15									
Diesel Range Hydrocarbons	5.08	0.250	mg/l	1	0L21010	12/21/00	12/24/00	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-150			"	"	"	"	S-02
Surrogate: Octacosane	64.6 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B0L0461-02) Water	Sampled: 12/16/00 14:15 Received: 12/19/00 10:15								Q-30
Lead	ND	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW2 (B0L0461-03) Water	Sampled: 12/16/00 14:40 Received: 12/19/00 10:15								Q-30
Lead	0.00194	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW3 (B0L0461-04) Water	Sampled: 12/16/00 15:35 Received: 12/19/00 10:15								Q-30
Lead	ND	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW4 (B0L0461-05) Water	Sampled: 12/16/00 15:05 Received: 12/19/00 10:15								Q-30
Lead	0.0123	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW5 (B0L0461-06) Water	Sampled: 12/16/00 16:00 Received: 12/19/00 10:15								Q-30
Lead	0.0200	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0L27004: Prepared 12/27/00 Using EPA 5030B (P/T)

Blank (0L27004-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: 4-BFB (FID)	39.7		"	48.0		82.7	50-150			
Surrogate: 4-BFB (PID)	44.6		"	48.0		92.9	50-150			

LCS (0L27004-BS1)

Gasoline Range Hydrocarbons	501	50.0	ug/l	500		100	70-130			
Surrogate: 4-BFB (FID)	52.6		"	48.0		110	50-150			

Duplicate (0L27004-DUP1)

Source: B0L0461-05

Gasoline Range Hydrocarbons	61600	1000	ug/l		58200			5.68	25	
Surrogate: 4-BFB (FID)	70.3		"	48.0		146	50-150			

Duplicate (0L27004-DUP2)

Source: B0L0461-03

Gasoline Range Hydrocarbons	28800	25000	ug/l		28100			2.46	25	
Surrogate: 4-BFB (FID)	42.0		"	48.0		87.5	50-150			

Matrix Spike (0L27004-MS1)

Source: B0L0464-03

Benzene	9.71	0.500	ug/l	10.0	ND	97.1	70-130			
Toluene	9.81	0.500	"	10.0	ND	97.2	70-130			
Ethylbenzene	10.0	0.500	"	10.0	ND	100	70-130			
Xylenes (total)	29.5	1.00	"	30.0	ND	97.5	70-130			
Methyl tert-butyl ether	10.0	5.00	"	10.0	ND	100	70-130			
Surrogate: 4-BFB (PID)	47.5		"	48.0		99.0	50-150			

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Gettler-Ryan Inc. - Dublin
 6747 Sierra Court Suite G
 Dublin CA, 94568

Project: Chevron #20-9335
 Project Number: 386750
 Project Manager: Deanna Harding

Reported:
 01/05/01 10:34

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L27004: Prepared 12/27/00 Using EPA 5030B (P/T)										
Matrix Spike Dup (0L27004-MSD1)					Source: B0L0464-03					
Benzene	9.81	0.500	ug/l	10.0	ND	98.1	70-130	1.02	15	
Toluene	9.88	0.500	"	10.0	ND	97.9	70-130	0.711	15	
Ethylbenzene	10.0	0.500	"	10.0	ND	100	70-130	0	15	
Xylenes (total)	29.7	1.00	"	30.0	ND	98.2	70-130	0.676	15	
Methyl tert-butyl ether	9.73	5.00	"	10.0	ND	97.3	70-130	2.74	15	
<i>Surrogate: 4-BFB (PID)</i>	<i>48.0</i>		<i>"</i>	<i>48.0</i>		<i>100</i>	<i>50-150</i>			

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Gettler-Ryan Inc. - Dublin Project: Chevron #20-9335
 6747 Sierra Court Suite G Project Number: 386750 Reported: 01/05/01 10:34
 Dublin CA, 94568 Project Manager: Deanna Harding

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21010: Prepared 12/21/00 Using EPA 3510C/600 Series										
Blank (0L21010-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Heavy Oil Range Hydrocarbons	ND	0.750	"							
Surrogate: 2-FBP	0.212		"	0.320		66.3	50-150			
Surrogate: Octacosane	0.197		"	0.320		61.6	50-150			
LCS (0L21010-BS1)										
Diesel Range Hydrocarbons	1.34	0.250	mg/l	2.00		67.0	50-150			
Surrogate: 2-FBP	0.224		"	0.320		70.0	50-150			
Duplicate (0L21010-DUP1) Source: B0L0430-05										
Diesel Range Hydrocarbons	1.72	0.479	mg/l		1.37			22.7	44	
Heavy Oil Range Hydrocarbons	ND	1.44	"		ND				44	
Surrogate: 2-FBP	0.394		"	0.613		64.3	50-150			
Surrogate: Octacosane	0.417		"	0.613		68.0	50-150			
Duplicate (0L21010-DUP2) Source: B0L0461-05										
Diesel Range Hydrocarbons	ND	0.473	mg/l		ND			28.0	44	
Heavy Oil Range Hydrocarbons	ND	1.42	"		ND				44	
Surrogate: 2-FBP	0.441		"	0.606		72.8	50-150			
Surrogate: Octacosane	0.413		"	0.606		68.2	50-150			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #20-9335 Project Number: 386750 Project Manager: Deanna Harding	Reported: 01/05/01 10:34
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21008: Prepared 12/21/00 Using EPA 3005A										
Blank (0L21008-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (0L21008-BS1)										
Lead	0.196	0.00100	mg/l	0.200		98.0	80-120			
Matrix Spike (0L21008-MS1) Source: B0L0398-05										
Lead	0.203	0.00100	mg/l	0.200	ND	101	75-125			
Matrix Spike Dup (0L21008-MSD1) Source: B0L0398-05										
Lead	0.204	0.00100	mg/l	0.200	ND	102	75-125	0.491	20	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin
6747 Sierra Court Suite G
Dublin CA, 94568

Project: Chevron #20-9335
Project Number: 386750
Project Manager: Deanna Harding

Reported:
01/05/01 10:34

Notes and Definitions

- Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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