GETTLER-RYAN INC.

January 20, 2004
Job #386681

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

RE: Event of June 3, 2003
Event of December 11, 2003
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

Dear Mr. Hunter:

This report documents the groundwater monitoring and sampling events 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 Vicinity Map is included as Figure 1 and Potentiometric Maps are included as Figures 2 and 3.

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.

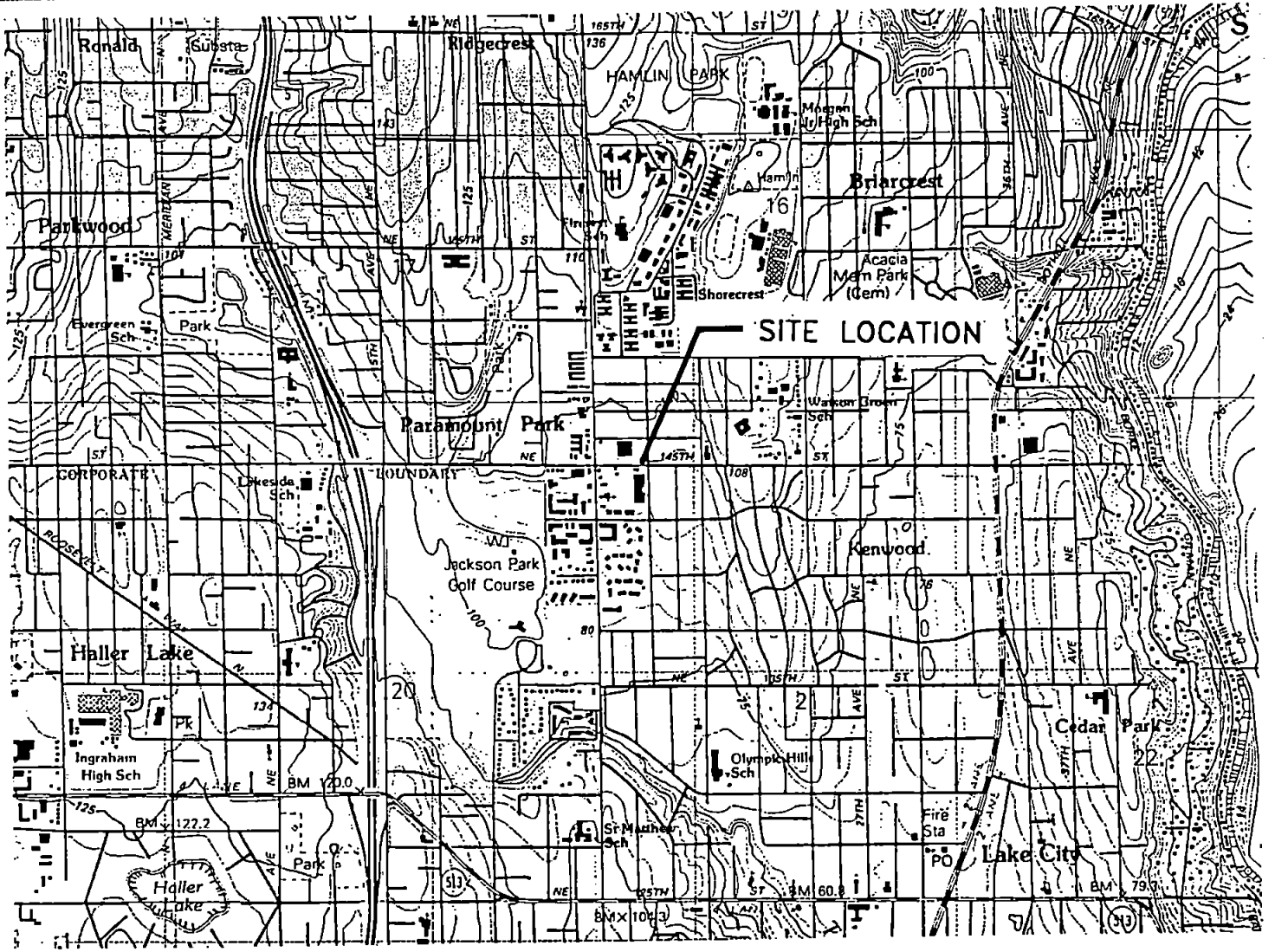
Please call if you have any questions or comments regarding this report. Thank you.

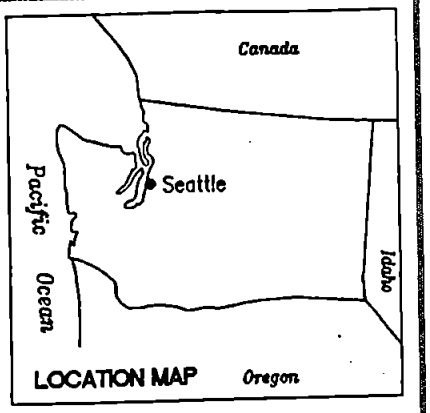
Sincerely,

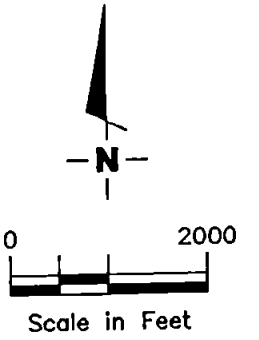
Deanna L. Harding
Project Coordinator

Hagop Kevork
Professional Engineer

Figure 1:	Vicinity Map
Figure 2:	Potentiometric Map - June 3, 2003
Figure 3:	Potentiometric Map - December 11, 2003
Table 1:	Groundwater Monitoring Data and Analytical Results
Table 2:	Groundwater Analytical Results - Oxygenate Compounds
Attachments:	Standard Operating Procedure - Groundwater Sampling
	Field Data Sheets
	Chain of Custody Document and Laboratory Analytical Reports







Base Map: USGS Topographic Map

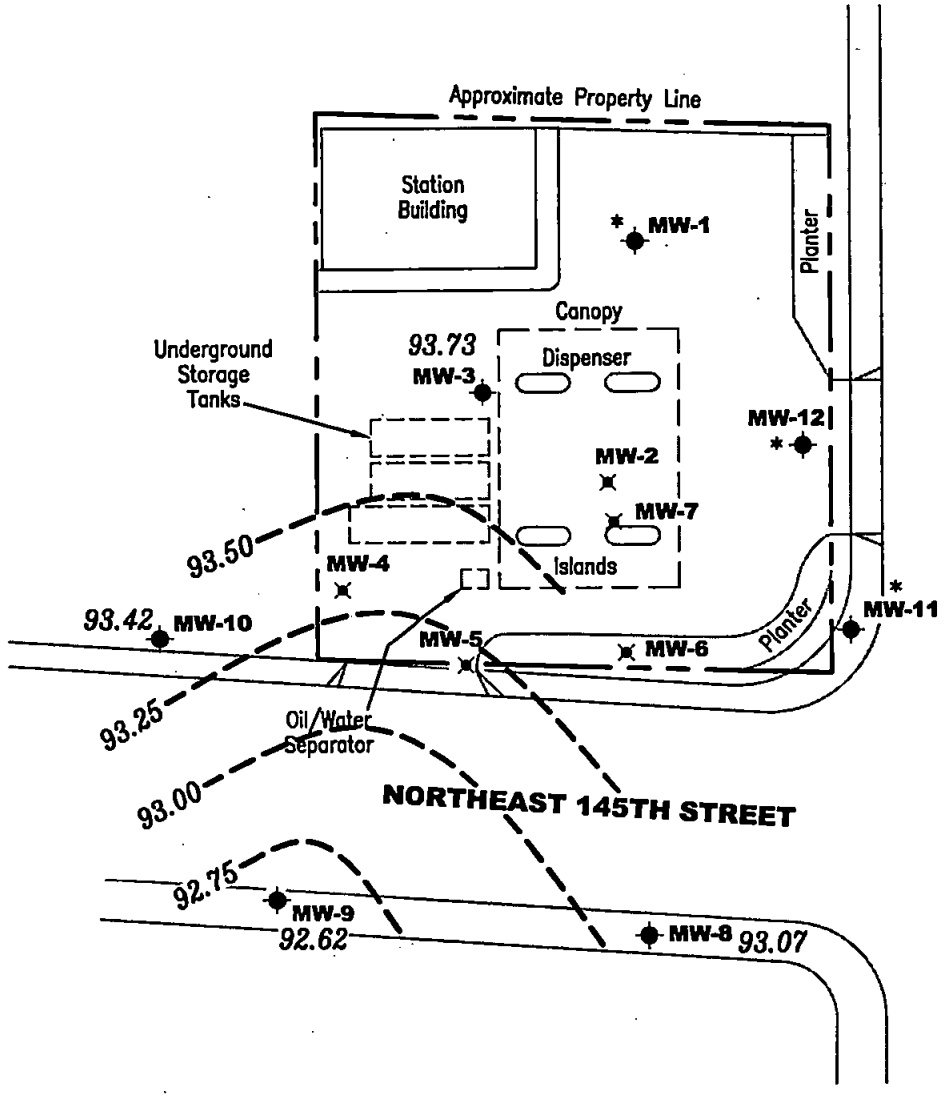
FIGURE

1

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

VICINITY MAP
Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
386681		04/00	



EXPLANATION

- Groundwater monitoring well
- Abandoned well
- 99.99 Groundwater elevation in feet referenced to an arbitrary site datum
- 99.99 Groundwater elevation contour, dashed where inferred.
- * Discontinued from monitoring/ sampling program

Approximate groundwater flow direction at a gradient of 0.006 to 0.01 Ft./Ft.

N

0 50

Scale in Feet

Source: Figure modified from drawing provided by Pacific Environmental Group, Inc.

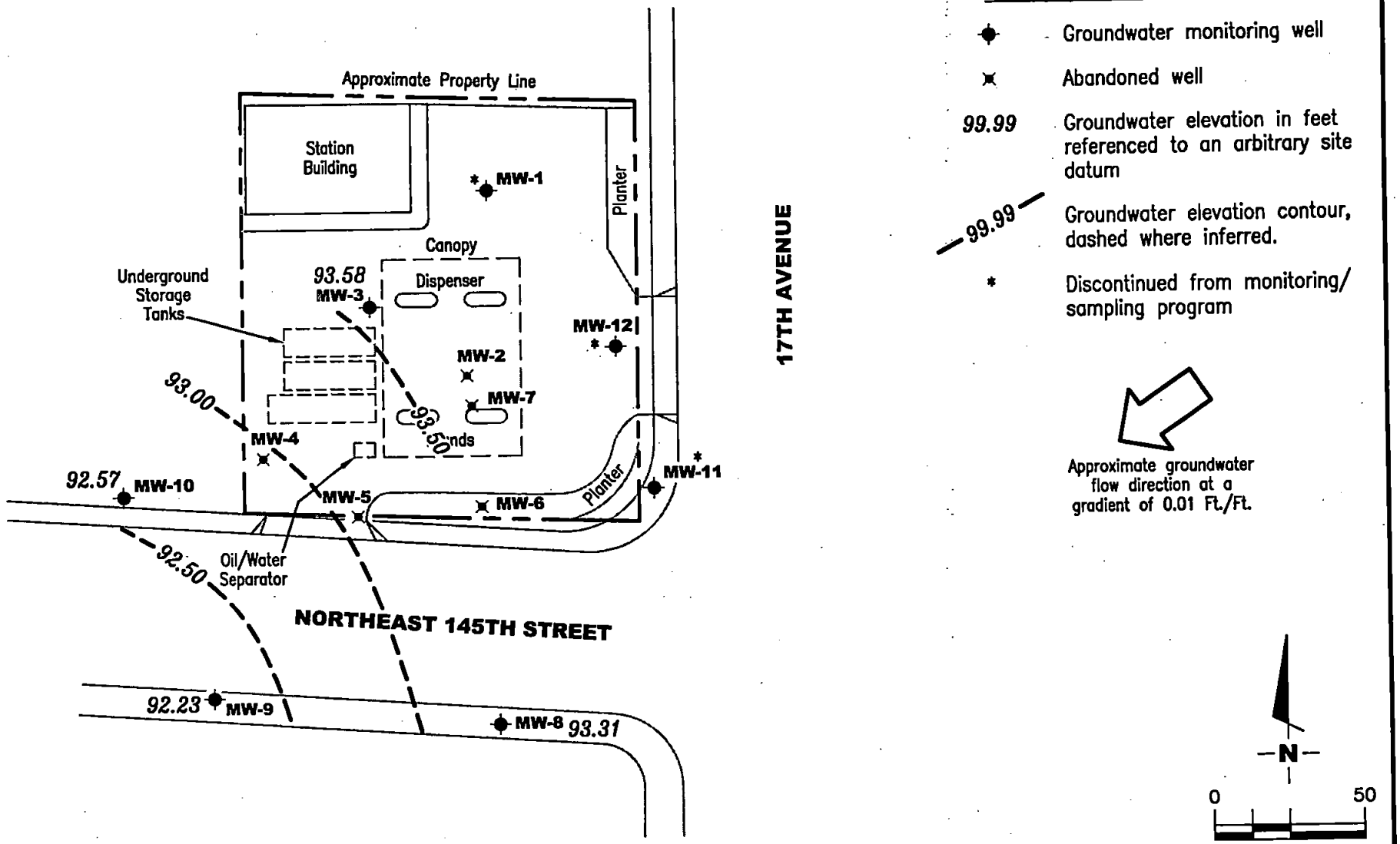
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

FIGURE 2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386681		June 3, 2003	

FILE NAME: P:\ENVIRO\CHEVRON\9-6266\Q03-6266.DWG | Layout Tab: Pot2



Source: Figure modified from drawing provided by Pacific Environmental Group, Inc.

FIGURE 3

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

POTENTIOMETRIC MAP
Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386681		December 11, 2003	

FILE NAME: P:\ENVIRO\CHEVRON\9-6266\Q03-6266.DWG | Layout Tab: Pot4

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

WELL ID TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1												
103.19	01/25/91	5.03	98.16	--	--	--	66	ND	0.8	ND	1	--
	10/17/91	9.67	93.52	--	--	--	ND	ND	ND	ND	ND	--
	04/13/92	7.50	95.69	--	--	--	--	--	--	--	--	--
	07/30/92	9.20	93.99	--	--	--	--	--	--	--	--	--
	11/25/92	9.40	93.79	--	--	--	--	--	--	--	--	--
	02/18/93	8.45	94.74	--	--	--	--	--	--	--	--	--
	05/13/93	6.91	96.28	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--
	01/27/94	7.70	95.49	--	ND	ND	--	--	--	--	--	--
	04/26/94	6.75	96.44	--	ND	ND	--	--	--	--	--	--
	07/26/94	8.40	94.79	--	580	750	--	--	--	--	--	--
	10/25/94	10.20	92.99	--	<240	<710	ND	ND	ND	ND	ND	--
	04/12/95	--	--	--	--	--	--	--	--	--	--	--
	10/04/95	--	--	--	--	--	--	--	--	--	--	--
	04/09/96	--	--	--	--	--	--	--	--	--	--	--
	04/11/97	--	--	--	--	--	--	--	--	--	--	--
	09/30/00	UNABLE TO LOCATE		--	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED											
MW-2												
100.33	01/25/91	4.61	95.72	--	--	--	ND	0.47	1.3	ND	1.4	--
	10/17/91	7.09	93.24	--	--	--	ND	ND	ND	ND	ND	--
	04/13/92	5.18	95.15	--	--	--	--	--	--	--	--	--
	07/30/92	6.34	93.99	--	--	--	--	--	--	--	--	--
	11/25/92	7.24	93.09	--	--	--	--	--	--	--	--	--
	02/18/93	6.34	93.99	--	--	--	--	--	--	--	--	--
	05/13/93	5.29	95.04	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--
	01/27/94	--	--	--	--	--	--	--	--	--	--	--
	04/26/94	--	--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

WELL ID TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	07/26/94	6.85	93.48	--	--	--	200	ND	0.8	1.3	8.7	--
(cont)	10/25/94	7.65	92.68	--	--	--	ND	ND	ND	ND	ND	--
	04/12/95	--	--	--	--	--	--	--	--	--	--	--
	10/04/95	--	--	--	--	--	--	--	--	--	--	--
	04/09/96	--	--	--	--	--	--	--	--	--	--	--
	04/11/97	--	--	--	--	--	--	--	--	--	--	--
	ABANDONED											
MW-3												
100.06	01/25/91	4.48	95.58	--	--	--	44	1.4	5.6	1.30	7.80	--
	10/17/91	7.19	92.87	--	--	--	ND	ND	ND	ND	ND	--
	04/13/92	5.19	94.87	--	--	--	--	--	--	--	--	--
	07/30/92	6.07	93.99	--	--	--	--	--	--	--	--	--
	11/25/92	6.78	93.28	--	--	--	--	--	--	--	--	--
	02/18/93	6.35	93.71	--	--	--	--	--	--	--	--	--
	05/13/93	2.77	97.29	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--
	01/27/94	5.87	94.19	--	--	--	ND	ND	ND	ND	ND	--
	04/26/94	5.05	95.01	--	--	--	ND	ND	ND	ND	ND	--
	07/26/94	8.57	91.49	--	--	--	ND	ND	ND	ND	ND	--
	10/25/94	--	--	--	--	--	--	--	--	--	--	--
	04/12/95	--	--	--	--	--	--	--	--	--	--	--
	10/04/95	--	--	--	--	--	--	--	--	--	--	--
	04/09/96	--	--	--	--	--	--	--	--	--	--	--
	04/11/97	--	--	--	--	--	--	--	--	--	--	--
	03/23/00	4.88	95.18	0.00	ND	ND	76.7	65.8	9.60	0.772	8.01	7.25[4]
	09/30/00[5]	8.02	92.04	0.00	379	ND[3]	1,410	343	185	ND[3]	242	ND[3]
	12/07/00[7]	7.66	92.40	0.00	801	ND	171	254	31.8	0.636	6.84	39.2/12.8[2]
	03/26/01[7]	6.82	93.24	0.00	1,550[8]	ND	698	787	101	ND[3]	62.5	34.2/29.7[2]
	06/09/01[7]	7.04	93.02	0.00	1,780	<750	<50.0	306	1.48	0.962	2.84	12.9/10[6]
	09/18/01[7]	8.28	91.78	0.00	2,640[9]	<500	546	38.5	7.15	6.11	79.3	4.70/<5.00[2]
	12/07/01	6.21	93.85	0.00	5,000[9]	844[9]	2,360	954	125	<10.0	41.6	26.1/<2.50[2]

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WELL ID TOC* (ft.)		DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	NP	06/09/02	5.72	94.34	0.00	300[10]	<750[10]	97	200	7.4	1.0	4.1	<2.5
(cont)	NP	12/09/02	8.48	91.58	0.00	4,300[10]	2,900[10,11]	350	780	82	2.3	21	<50
	NP	**06/03/03**	**6.33**	**93.73**	**0.00**	**2,300[10]**	**2,100[10]**	**530**	**1,100**	**120**	**4.5**	**51**	**<10**
	NP	**12/11/03**	**6.48**	**93.58**	**0.00**	**<250[10]**	**<250[10]**	**1,400**	**1,400**	**250**	**6.9**	**83**	**<50**
MW-8													
98.44		10/17/91	7.15	91.29	--	--	--	65	ND	ND	ND	0.51	--
		04/13/92	4.96	93.48	--	--	--	ND	ND	ND	ND	ND	--
		07/30/92	6.43	92.01	--	--	--	ND	ND	ND	ND	ND	--
		11/25/92	6.92	91.52	--	--	--	ND	ND	ND	ND	ND	--
		02/18/93	5.85	92.59	--	--	--	200	29	1.4	1.8	27	--
		05/13/93	4.71	93.73	--	--	--	ND	0.9	ND	ND	ND	--
		08/06/93	5.68	92.76	--	--	--	ND	ND	ND	ND	ND	--
		11/15/93	7.01	91.43	--	ND	ND	ND	ND	ND	ND	ND	--
		01/27/94	5.54	92.90	--	--	--	ND	ND	ND	ND	ND	--
		04/26/94	4.87	93.57	--	--	--	ND	ND	ND	ND	ND	--
		07/26/94	6.39	92.05	--	--	--	ND	ND	ND	ND	ND	--
		10/25/94	7.50	90.94	--	--	--	ND	ND	ND	ND	ND	--
		04/12/95[1]	4.11	94.33	--	--	--	ND	ND	ND	ND	ND	--
		10/04/95[1]	6.41	92.03	--	--	--	ND	ND	ND	ND	ND	--
		04/09/96	4.26	94.18	--	--	--	ND	ND	ND	ND	ND	--
		04/11/97	3.95	94.49	--	--	--	ND	ND	ND	ND	ND	--
		03/23/00	3.94	94.50	0.00	--	--	--	--	--	--	--	--
		09/30/00	6.96	91.48	0.00	ND	ND	ND	ND	ND	ND	ND	ND
		12/07/00	6.32	92.12	0.00	ND	ND	ND	ND	ND	ND	ND	ND
		03/26/01	5.37	93.07	0.00	--	--	--	--	--	--	--	--
		06/09/01	5.90	92.54	0.00	--	--	--	--	--	--	--	--
		09/18/01	7.30	91.14	0.00	--	--	--	--	--	--	--	--
		12/07/01	4.91	93.53	0.00	--	--	--	--	--	--	--	--
		06/09/02	4.84	93.60	0.00	--	--	--	--	--	--	--	--
		12/09/02	7.44	91.00	0.00	--	--	--	--	--	--	--	--
		06/03/03	**5.37**	**93.07**	**0.00**	--	--	--	--	--	--	--	--
		12/11/03	**5.13**	**93.31**	**0.00**	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

WELL ID TOC* (ft.)		DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9													
98.34		10/17/91	7.65	90.69	--	--	--	4,200	620	ND	69	380	--
		04/13/92	5.84	92.50	--	--	--	4,700	800	59	210	530	--
		07/30/92	6.98	91.36	--	--	--	3,400	880	22	120	490	--
		11/25/92	7.52	90.82	--	--	--	4,700	1,100	28	140	680	--
		02/18/93	6.86	91.48	--	--	--	2,900	670	37	180	390	--
		05/13/93	5.84	92.50	--	--	--	1,900	390	14	96	260	--
		08/06/93	6.30	92.04	--	--	--	2,300	520	8.9	89	290	--
		11/15/93	7.60	90.74	--	380	ND	2,900	780	13	63	440	--
		01/27/94	6.48	91.86	--	--	--	2,700	480	26	100	340	--
		04/26/94	5.73	92.61	--	--	--	4,400	330	12	65	230	--
		07/26/94	6.89	91.45	--	--	--	2,000	500	9.3	46	380	--
		10/25/94	7.91	90.43	--	--	--	3,000	460	10	29	350	--
		04/12/95[1]	4.85	93.49	--	--	--	510	55	0.91	3.8	24	--
		10/04/95[1]	6.97	91.37	--	--	--	4,900	670	15	87	840	--
		04/09/96	5.00	93.34	--	--	--	ND	12	ND	ND	ND	--
		04/11/97	4.40	93.94	--	--	--	ND	ND	ND	ND	ND	--
		03/23/00	4.74	93.60	0.00	ND	ND	198	ND[3]	ND[3]	ND	ND	15.6/10.8[2]
		09/30/00	7.31	91.03	0.00	258	ND	1,550	42.7	4.05	3.04	122	14.4/14.4[6]
		12/07/00	7.03	91.31	0.00	274	ND	532	28.9	2.27	ND	45.1	15.0/7.71[2]
		03/26/01	6.36	91.98	0.00	ND	ND	214	ND	1.20	ND	ND	10.1/11.2[2]
		06/09/01	6.71	91.63	0.00	<250	<750	100	0.887	<0.500	<0.500	<1.00	15.2/14[6]
		09/18/01	7.75	90.59	0.00	396	<500	341	10.6	1.36	0.519	14.8	10.5/9.92[2]
		12/07/01	5.99	92.35	0.00	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00/<2.50[2]
	NP	06/09/02	5.61	92.73	0.00	<250[10]	<750[10]	51	<0.50	<0.50	<0.50	<1.5	25/25[2]
	NP	12/09/02	7.96	90.38	0.00	300[10]	<250[10]	1,800	52	9.4	1.6	160	22/13[2]
	NP	**06/03/03**	**5.72**	**92.62**	**0.00**	**<250[10]**	**<250[10]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**14/12[2]**
	NP	**12/11/03**	**6.11**	**92.23**	**0.00**	**<250[10]**	**<250[10]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**
MW-10													
97.80		10/17/91	5.97	91.83	--	--	--	93	ND	ND	ND	ND	--
		04/13/92	4.55	93.25	--	--	--	ND	ND	4.5	ND	ND	--
		07/30/92	5.33	92.47	--	--	--	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

WELL ID TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	11/25/92	5.83	91.97	--	--	--	ND	ND	1.0	ND	2.1	--
(cont)	02/18/93	5.40	92.40	--	--	--	--	--	--	--	--	--
	05/13/93	4.40	93.40	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--
	01/27/94	--	--	--	--	--	--	--	--	--	--	--
	04/26/94	--	--	--	--	--	--	--	--	--	--	--
	07/26/94	--	--	--	--	--	--	--	--	--	--	--
	10/25/94	--	--	--	--	--	--	--	--	--	--	--
	04/12/95[1]	3.92	93.88	--	--	--	ND	ND	ND	ND	ND	--
	10/04/95[1]	5.20	92.60	--	--	--	ND	ND	ND	ND	ND	--
	04/09/96	3.86	93.94	--	--	--	ND	ND	ND	ND	ND	--
	04/11/97	3.55	94.25	--	--	--	ND	ND	ND	ND	ND	--
	03/23/00	4.78	93.02	0.00	ND	ND	ND	ND	ND	ND	ND	3.83[4]
	12/07/00	5.75	92.05	0.00	ND	ND	ND	ND	ND	ND	ND	1.79/ND[2]
	03/26/01	5.35	92.45	0.00	ND	ND	ND	ND	ND	ND	ND	ND
	06/09/01	5.40	92.40	0.00	<250	<750	<50.0	<0.500	<0.500	<0.500	<1.00	4.81
	09/18/01	6.23	91.57	0.00	410	<500	<50.0	<0.500	<0.500	<0.500	<1.00	8.93/7.62[2]
	12/07/01	5.12	92.68	0.00	356[8]	<500	<50.0	<0.500	<0.500	<0.500	<1.00	4.51/<5.00[2]
	06/09/02	5.00	92.80	0.00	--	--	--	--	--	--	--	--
	12/09/02	6.31	91.49	0.00	--	--	--	--	--	--	--	--
	06/03/03	**4.38**	**93.42**	**0.00**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
	12/11/03	**5.23**	**92.57**	**0.00**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-11												
100.32	10/17/91	8.46	91.86	--	--	--	120	ND	ND	ND	0.67	--
	04/13/92	5.21	95.11	--	--	--	ND	ND	ND	ND	ND	--
	07/30/92	7.06	93.26	--	--	--	ND	ND	ND	ND	ND	--
	11/25/92	7.28	93.04	--	--	--	ND	ND	1.3	ND	2	--
	02/18/93	6.45	93.87	--	--	--	--	--	--	--	--	--
	05/13/93	5.13	95.19	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

WELL ID TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-11	01/27/94	5.91	94.41	--	--	--	ND	ND	ND	ND	ND	--
(cont)	04/26/94	4.97	95.35	--	--	--	ND	ND	ND	ND	ND	--
	07/26/94	7.29	93.03	--	--	--	ND	ND	ND	ND	ND	--
	10/25/94	5.45	94.87	--	--	--	ND	ND	ND	ND	ND	--
	04/12/95	--	--	--	--	--	--	--	--	--	--	--
	10/04/95	--	--	--	--	--	--	--	--	--	--	--
	04/09/96	--	--	--	--	--	--	--	--	--	--	--
	04/11/97	--	--	--	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED											
MW-12												
103.19	10/17/91	10.44	92.75	--	--	--	120	ND	ND	0.65	0.66	--
	04/13/92	7.50	95.69	--	--	--	ND	ND	ND	ND	ND	--
	07/30/92	9.50	93.69	--	--	--	ND	ND	ND	ND	ND	--
	11/25/92	10.20	92.99	--	--	--	ND	ND	7.3	ND	ND	--
	02/18/93	9.12	94.07	--	--	--	--	--	--	--	--	--
	05/13/93	7.84	95.35	--	--	--	--	--	--	--	--	--
	08/06/93	--	--	--	--	--	--	--	--	--	--	--
	11/15/93	--	--	--	--	--	--	--	--	--	--	--
	01/27/94	--	--	--	--	--	--	--	--	--	--	--
	04/26/94	--	--	--	--	--	--	--	--	--	--	--
	07/26/94	--	--	--	--	--	--	--	--	--	--	--
	10/25/94	--	--	--	--	--	--	--	--	--	--	--
	04/12/95	--	--	--	--	--	--	--	--	--	--	--
	10/04/95	--	--	--	--	--	--	--	--	--	--	--
	04/09/96	--	--	--	--	--	--	--	--	--	--	--
	04/11/97	--	--	--	--	--	--	--	--	--	--	--
	NOT MONITORED/SAMPLED											

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

WELL ID TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
Trip Blank												
TB-LB	04/11/97	--	--	--	--	--	ND	ND	ND	ND	ND	--
	03/23/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/30/00	--	--	--	--	--	--	--	--	--	--	--
	12/07/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/26/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/09/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00
	09/18/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00
	12/07/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00
	06/09/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	12/09/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
	06/03/03	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**
	12/11/03	--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE
Standard Laboratory Reporting Limits:	250	250	50	0.5	0.5	0.5	1.5	2.5
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 8021B					

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-6266

1554 NE 145th Street

Seattle, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 23, 2000, were compiled from reports prepared by Pacific Environmental Group, Inc.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
SPHT = Separate Phase Hydrocarbon Thickness
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-O = Total Petroleum Hydrocarbons as Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
(ppb) = Parts per billion

ND = Not Detected
NP = No purge
-- = Not Measured/Not Analyzed
MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

* TOC elevations are in feet relative to an arbitrary datum.

1 Total Lead by EPA Method 7421 was ND.
2 MTBE by EPA Method 8260.
3 Detection limit raised. Refer to analytical reports.
4 MTBE confirmed by EPA Method 8260.
5 Replaced ORC in well.
6 MTBE by EPA Method 8260 was analyzed outside of the recommended holding time.
7 ORC present in well.
8 Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.
9 Laboratory report indicates the hydrocarbon concentration result in this sample is partially due to one or more individule peaks eluting in the diesel/heavy oil range.
10 TPH-D and TPH-O with silica gel cleanup.
11 Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-6266
1554 NE 145th Street
Seattle, Washington

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-3	12/07/00	ND	ND[1]	ND[1]	12.8	ND[1]	ND[1]	ND[1]
	03/26/01	<10.0	<2,500	<500	29.7	<25.0	<25.0	<25.0
	06/09/01	<10.0	<500[2]	150[2]	10[2]	<2.0[2]	<2.0[2]	<2.0[2]
	09/18/01	<10.0	<1,000	250	<5.00	<2.00	<2.00	<2.00
	12/07/01	<50.0	<2,500	1,290	<2.50	<5.00	<5.00	<5.00
MW-8	12/07/00	ND	ND	ND	ND	ND	ND	ND
MW-9	12/07/00	ND	ND	ND	7.71	ND	ND	ND
	03/26/01	<10.0	<200	<40.0	11.2	<2.00	<2.00	<2.00
	06/09/01	<10.0	<500[2]	<20[2]	14[2]	<2.0[2]	<2.0[2]	<2.0[2]
	09/18/01	<10.0	<1,000	<250	9.92	<2.00	<2.00	<2.00
	12/07/01	<10.0	<2,500	<250	<2.50	<5.00	<5.00	<5.00
	06/09/02	--	--	--	25	--	--	--
	12/09/02	--	--	--	13	--	--	--
	06/03/03	--	--	--	12	--	--	--
MW-10	12/07/00	ND	ND	ND	ND	ND	ND	ND
	09/18/01	--	--	--	7.62	--	--	--
	12/07/00	--	--	--	<5.00	--	--	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether

(ppm) = Parts per million
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

ANALYTICAL METHODS:

EPA Method 8015 for Methanol
EPA Method 8260 for Oxygenate Compounds

1 Detection limit raised. Refer to analytical reports.

2 Laboratory report indicates sample was analyzed outside the EPA recommended holding 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.

FORMER CHEVRON SERVICE STATION #9-6266
Seattle, Washington

MONITORING & SAMPLING
EVENT OF JUNE 3, 2003

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron SS #9-6266 | Job Number: 386681
Site Address: 1554 N.E. 145th Street | Event Date: 6-3-03
City: Seattle, Washington | Sampler: BWN

Well ID: MW-3 | Well Condition: O.K.
Well Diameter: 2/4 in. | Hydrocarbon Thickness: Ø ft. | Amount Bailed (product/water): Ø gal.
Total Depth: 10.11 ft.
Depth to Water: 6.33 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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: _____

Start Time (purge): 900 | Weather Conditions: Sunny
Sample Time/Date: 915 / | Water Color: clear | Odor: yes
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-3	6 x voa vial	YES	HCL	Lancaster	TPH-G/BTEX/MTBE 8260
MW-3	2 xamber	" "	" "	" "	TPH-Dx WSG

COMMENTS: No Purge

Add/Replaced Lock: _____ | Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: **Chevron SS #9-6266** Job Number: **386681**

Site Address: **1554 N.E. 145th Street** Event Date: 6-3-03

City: **Seattle, Washington** Sampler: BWN

Well ID MW-8 Well Condition: ok

Well Diameter (2)4 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.

Total Depth 14.28 ft.

Depth to Water 5.37 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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:

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: / Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ 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-	x voa vial	YES	HCL	Lancaster	TPH-G/BTEX/MTBE
MW-	x amber	" "	" "	" "	TPH-Dx w/sg

COMMENTS: Monitoring Only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: Chevron SS #9-6266 Job Number: 386681
Site Address: 1554 N.E. 145th Street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-9 Well Condition: O.K.
Well Diameter 2/4 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 13.37 ft.
Depth to Water 5.72 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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: _____

Start Time (purge): 930 Weather Conditions: Sunny
Sample Time/Date: 945 / Water Color: clear Odor: slight
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-9	6 x voa vial	YES	HCL	Lancaster	TPH-G/BTEX/MTBE 8260
MW-9	2 xamber	" "	" "	" "	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 #: **Chevron SS #9-6266** Job Number: **386681**

Site Address: **1554 N.E. 145th Street** Event Date: 6-3-03

City: **Seattle, Washington** Sampler: BWN

Well ID **MW-10** Well Condition: OK

Well Diameter 2/4 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.

Total Depth 13.12 ft.

Depth to Water 4.38 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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:

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ 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-	x voa vial	YES	HCL	Lancaster	TPH-G/BTEX/MTBE
MW-	xamber	" "	" "	" "	TPH-Dx wsg

COMMENTS: Monitoring Only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 112100 Sample #: 40160318-20 SCR#: 855702

Facility #: ~~SS#9-6266 G-R#386681~~
Site Address: ~~1554 NE 145th Street, SEATTLE, WA~~
Chevron PM: ~~BH~~ Lead Consultant: ~~SAICLB~~
Consultant/Office: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568~~
Consultant Prj. Mgr.: ~~Deanna L. Harding (deanna@grinc.com)~~
Consultant Phone #: ~~925-551-7555~~ Fax #: ~~925-551-7899~~
Sampler: Ben W. Newton
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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	Matrix: Soil	Matrix: Water	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☒ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates: ___	TPH G	TPH D ☒ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification
QA	6-3-03	—	X			X		2	X			X				
MW-3	↓	915	X			X		8	X			X	X			
MW-9	↓	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.

	Date	Time		Date	Time
Relinquished by: Ben Newton	6-9-03	1400	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other ____			Received by:	6/10/03	0910
Temperature Upon Receipt 4.5 C°			Custody Seals Intact? (Yes) No		

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583
925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 855102. Samples arrived at the laboratory on Tuesday, June 10, 2003. The PO# for this group is 99011184 and the release number is HUNTER.

Client Description	Lancaster Labs Number
QA Water Sample	4060318
MW-3 Grab Water Sample	4060319
MW-9 Grab Water Sample	4060320

ELECTRONIC COPY TO	Gettler Ryan	Attn: Michael Sharaeff
1 COPY TO	SAIC	Attn: Ms. Deanna Harding

Lancaster Laboratories

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,

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 4060318

Collected: 06/03/2003 00:00

Submitted: 06/10/2003 09:10
Reported: 06/23/2003 at 14:29
Discard: 07/24/2003
QA Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA

Account Number: 11260

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

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.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	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
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/12/2003 19:16	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	06/12/2003 19:16	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/12/2003 19:16	Martha L Seidel	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 4060319

Collected: 06/03/2003 09:15 by BN

Account Number: 11260

Submitted: 06/10/2003 09:10
Reported: 06/23/2003 at 14:29
Discard: 07/24/2003
MW-3 Grab Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

NE--3

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.	2,300.	400.	ug/l	5
02096	Heavy Range Organics	n.a.	2,100.	500.	ug/l	5
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	1,100.	1.0	ug/l	5
00777	Toluene	108-88-3	120.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	4.5	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	51.	3.0	ug/l	5
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	10.	ug/l	5
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	530.	250.	ug/l	5

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	06/17/2003 18:11	Devin M Hetrick	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/12/2003 14:54	Linda C Pape	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	06/12/2003 14:54	Linda C Pape	5
01146	GC VOA Water Prep	SW-846 5030B	1	06/12/2003 14:54	Linda C Pape	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	06/12/2003 01:30	David V Hershey Jr	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4060320

Collected:06/03/2003 09:45 by BN

Account Number: 11260

Submitted: 06/10/2003 09:10
Reported: 06/23/2003 at 14:29
Discard: 07/24/2003
MW-9 Grab Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

NE--9

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.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	14.	2.5	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	12.	2.	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	06/17/2003 18:36	Devin M Hetrick	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/12/2003 15:27	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	06/12/2003 15:27	Linda C Pape	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	06/17/2003 14:50	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/12/2003 15:27	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/17/2003 14:50	John B Kiser	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	06/12/2003 01:30	David V Hershey Jr	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Reported: 06/23/03 at 02:29 PM

Group Number: 855102

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 031620017A	Sample number(s): 4060319-4060320							
Diesel Range Organics	N.D.	0.080	mg/l	65		55-126		
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 03162A55A	Sample number(s): 4060318-4060320							
Benzene	N.D.	0.2	ug/l	97	97	80-118	0	30
Toluene	N.D.	0.2	ug/l	101	100	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	101	101	81-119	0	30
Total Xylenes	N.D.	0.6	ug/l	102	102	82-120	0	30
Methyl tert-Butyl Ether	N.D.	0.3	ug/l	92	95	79-127	3	30
TPH by NWTPH-Gx waters	N.D.	0.048	mg/l	83	81	70-130	2	30
Batch number: P031672AA	Sample number(s): 4060320							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		77-127		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 031620017A	Sample number(s): 4060319-4060320								
Diesel Range Organics						N.D.	N.D.	0 (1)	20
Heavy Range Organics						N.D.	N.D.	0 (1)	20
Batch number: 03162A55A	Sample number(s): 4060318-4060320								
Benzene	98	82	67-136	9	30				
Toluene	(2)	(2)	78-129	5	30				
Ethylbenzene	(2)	(2)	75-133	5	30				
Total Xylenes	(2)	(2)	78-130	4	30				
Methyl tert-Butyl Ether	126	113	66-136	11	30				
TPH by NWTPH-Gx waters	(2)	(2)	70-130	2	30				
Batch number: P031672AA	Sample number(s): 4060320								
Methyl Tertiary Butyl Ether	99	98	69-134	2	30				

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 031620017A

	Orthoterphenyl
4060319	85
4060320	83
Blank	101
LCS	93
Limits:	50-150

Analysis Name: TPH by NWTPH-Gx waters

*- 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.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 855102
Reported: 06/23/03 at 02:29 PM

Surrogate Quality Control

Batch number: 03162A55A

	Trifluorotoluene-P	Trifluorotoluene-F
4060318	115	100
4060319	113	97
4060320	113	98
Blank	114	99
LCS	111	98
LCSD	112	98
MS	111	97
MSD	112	100
Limits:	66-136	57-146

Analysis Name: MTBE by GC/MS (water)
Batch number: P031672AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4060320	98	100	89	87
Blank	99	102	92	86
LCS	98	99	90	89
MS	99	101	93	92
MSD	99	97	92	90
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.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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FORMER CHEVRON SERVICE STATION #9-6266
Seattle, Washington

MONITORING & SAMPLING
EVENT OF DECEMBER 11, 2003

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-6266 Job Number: 386681
Site Address: 1554 Ne 145Th Street Event Date: 12-11-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-3 Date Monitored: 12-11-03 Well Condition: OK
Well Diameter 4 in.
Total Depth 9.85 ft.
Depth to Water 6.48 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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 / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Product Transferred to: ____

Start Time (purge): ~~1200~~ 1200 Weather Conditions: Rain
Sample Time/Date: ~~1215~~ 1215 / 12-11-03 Water Color: gray Odor: Yes
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-3	6 x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE
MW-3	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 #9-6266 Job Number: 386681
Site Address: 1554 Ne 145Th Street Event Date: 12-11-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW- 8 Date Monitored: 12-11-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 14.26 ft.
Depth to Water 5.13 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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 / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ 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-	x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE
MW-	x amber	YES	HCL	LANCASTER	TPH-Dx w/sg

COMMENTS: Monitoring Only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-6266 Job Number: 386681
Site Address: 1554 Ne 145Th Street Event Date: 12-11-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-9 Date Monitored: 12-11-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 13.36 ft.
Depth to Water 6.11 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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 / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Product Transferred to: ____

Start Time (purge): 1230 Weather Conditions: Rain
Sample Time/Date: 1245 / 12-11-03 Water Color: clear Odor: ND
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-9	6 x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE
MW-9	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 #9-6266 Job Number: 386681
Site Address: 1554 Ne 145Th Street Event Date: 12-11-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW- 10 Date Monitored: 12-11-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 13.11 ft.
Depth to Water 5.23 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	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 / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: ____ gal
Product Transferred to: ____

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / Water Color: ____ Odor: ____
Purging Flow Rate: ____ gpm. Sediment Description: ____
Did well de-water? ____ 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-	x voa vial	YES	HCL	LANCASTER	TPH-G/BTEX/MTBE
MW-	x amber	YES	HCL	LANCASTER	TPH-Dx w/sg

COMMENTS: Monitoring Only

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11260 Sample #: 418913Z-34 SCR#: 879226

Facility #: SS#9-6266 G-R#386681
Site Address: 1554 NE 145th Street, SEATTLE, WA
Chevron PM: BH Lead Consultant: SAICLB
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
Consultant Pm. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Ben Newton
Service Order #: ☐ Non SAR

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 ☐ Napth	8260 full scan	Oxygenates	TPHG	TPHD	Extended Rng. Silica Gel Cleanup	Lead: Total	Diss.	Method	VPH/EPH	NWTPH-HCID	quantification	Comments / Remarks
QA	12-11-03	—	X			X			2	X				X									
MW 3	↓	1215	X			X			8	X				X	X								
MW 9		1245	X			X			8	X				X	X								

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, 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

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:	Date	Time	Received by:	Date	Time
Ben Newton	12-17-03	1200			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by: Kathy Brinkley	12-19-03	1045
Temperature Upon Receipt 3.5°C 3.0 ± 4.0			Custody Seals Intact? Yes No		

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583
925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 879226. Samples arrived at the laboratory on Friday, December 19, 2003. The PO# for this group is 99011184 and the release number is HUNTER.

Client Description	Lancaster Labs Number
QA Water Sample	4189132
MW 3 Grab Water Sample	4189133
MW 9 Grab Water Sample	4189134

1 COPY TO	SAIC	Attn: Ms. Deanna Harding
ELECTRONIC	Gettler Ryan	Attn: Michael Sharaeff
COPY TO		

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

Respectfully Submitted,

Elizabeth A. Smith
Senior Chemist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4189132

QA Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA
Collected:12/11/2003 00:00

Submitted: 12/19/2003 10:45
Reported: 01/07/2004 at 15:45
Discard: 02/07/2004

Account Number: 11260

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

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.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/23/2003 10:12	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	12/23/2003 10:12	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2003 10:12	Linda C Pape	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

Lancaster Laboratories Sample No. WW 4189133

MW 3 Grab Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA
Collected:12/11/2003 12:15 by BN

Account Number: 11260

Submitted: 12/19/2003 10:45
Reported: 01/07/2004 at 15:45
Discard: 02/07/2004

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

NES03

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.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	1,400.	2.0	ug/l	10
00777	Toluene	108-88-3	250.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	6.9	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	83.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	50.	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

An elevated surrogate recovery was observed. The analysis was repeated and an elevated surrogate recovery was again observed indicating a significant matrix effect.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	1.4	0.050	mg/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

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	12/30/2003 20:21	Devin M Hetrick	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/23/2003 19:37	Martha L Seidel	10

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

Lancaster Laboratories Sample No. WW 4189133

MW 3 Grab Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA
Collected:12/11/2003 12:15 by BN

Account Number: 11260

Submitted: 12/19/2003 10:45
Reported: 01/07/2004 at 15:45
Discard: 02/07/2004

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

NES03

08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/24/2003 04:24	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	12/24/2003 04:24	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/24/2003 04:24	Linda C Pape	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	12/22/2003 07:45	Danette S Blystone	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

Lancaster Laboratories Sample No. WW 4189134

MW 9 Grab Water Sample
Facility# 96266 Job# 386681
1554 NE 145th Street; Seattle, WA
Collected:12/11/2003 12:45 by BN

Account Number: 11260

Submitted: 12/19/2003 10:45
Reported: 01/07/2004 at 15:46
Discard: 02/07/2004

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

NES09

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.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	0.050	mg/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

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	12/30/2003 20:46	Devin M Hetrick	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/23/2003 20:47	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	12/23/2003 20:47	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/23/2003 20:47	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	12/22/2003 07:45	Danette S Blystone	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Reported: 01/07/04 at 03:46 PM

Group Number: 879226

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 033540011A	Sample number(s): 4189133-4189134							
Diesel Range Organics	N.D.	250.	ug/l	88		46-112		
Heavy Range Organics	N.D.	250.	ug/l					
Batch number: 03356A56A	Sample number(s): 4189132-4189134							
Benzene	N.D.	.5	ug/l	84	84	75-134	0	30
Toluene	N.D.	.5	ug/l	86	87	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	86	86	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	87	88	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	86	86	59-153	1	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	95	70-130	3	30
Batch number: 03356A56B	Sample number(s): 4189133							
Toluene	N.D.	.5	ug/l	86	87	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	86	86	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	87	88	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	86	86	59-153	1	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	95	70-130	3	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 033540011A	Sample number(s): 4189133-4189134								
Diesel Range Organics						N.D.	N.D.	0 (1)	20
Heavy Range Organics						N.D.	N.D.	0 (1)	20
Batch number: 03356A56A	Sample number(s): 4189132-4189134								
Benzene	107		67-136						
Toluene	111		78-129						
Ethylbenzene	114		75-133						
Total Xylenes	116		78-130						
Methyl tert-Butyl Ether	105		66-136						
TPH by NWTPH-Gx waters	103		63-154						
Batch number: 03356A56B	Sample number(s): 4189133								
Toluene	111		78-129						
Ethylbenzene	114		75-133						
Total Xylenes	116		78-130						
Methyl tert-Butyl Ether	105		66-136						
TPH by NWTPH-Gx waters	103		63-154						

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 033540011A
Orthoterphenyl

*- 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

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 879226
Reported: 01/07/04 at 03:46 PM

Surrogate Quality Control

4189133	82
4189134	90
Blank	90
LCS	90
Limits:	50-150

Analysis Name: BTEX, MTBE (8021)
Batch number: 03356A56A

	Trifluorotoluene-P	Trifluorotoluene-F
4189132	102	95
4189133	87	
4189134	101	95
Blank	102	98
LCS	102	98
LCSD	102	98
MS	99	97
Limits:	66-136	57-146

Analysis Name: BTEX, MTBE (8021)
Batch number: 03356A56B

	Trifluorotoluene-P	Trifluorotoluene-F
4189133	173*	131
Blank	100	97
LCS	102	98
LCSD	102	98
MS	99	97
Limits:	66-136	57-146

*- 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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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.