

November 6, 2003 Job #386765

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

RE: Event of October 1 and 2, 2003

Groundwater Monitoring & Sampling Report Former Texaco Service Station 631 Queen Anne Avenue North Seattle, Washington (Site #211577)

Dear Mr. Hunter:

This report documents the groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All fieldwork 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 present in three wells (VP-4, VP-6 and MW-6). Separate Phase Hydrocarbon Thickness/Removal Data is presented in Table 2. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

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

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

Sincerely,

Deanna L. Harding Project Coordinator

Hagop Kevork Professional Engineer

Figure 1: Potentiometric Map

Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Separate Phase Hydrocarbon Thickness/Removal Data
Table 3: Groundwater Analytical Results - SVOC and PAH

Table 4: Groundwater Analytical Results - SVOC

Table 5: Groundwater Analytical Results - Dissolved Metals
Table 6: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

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

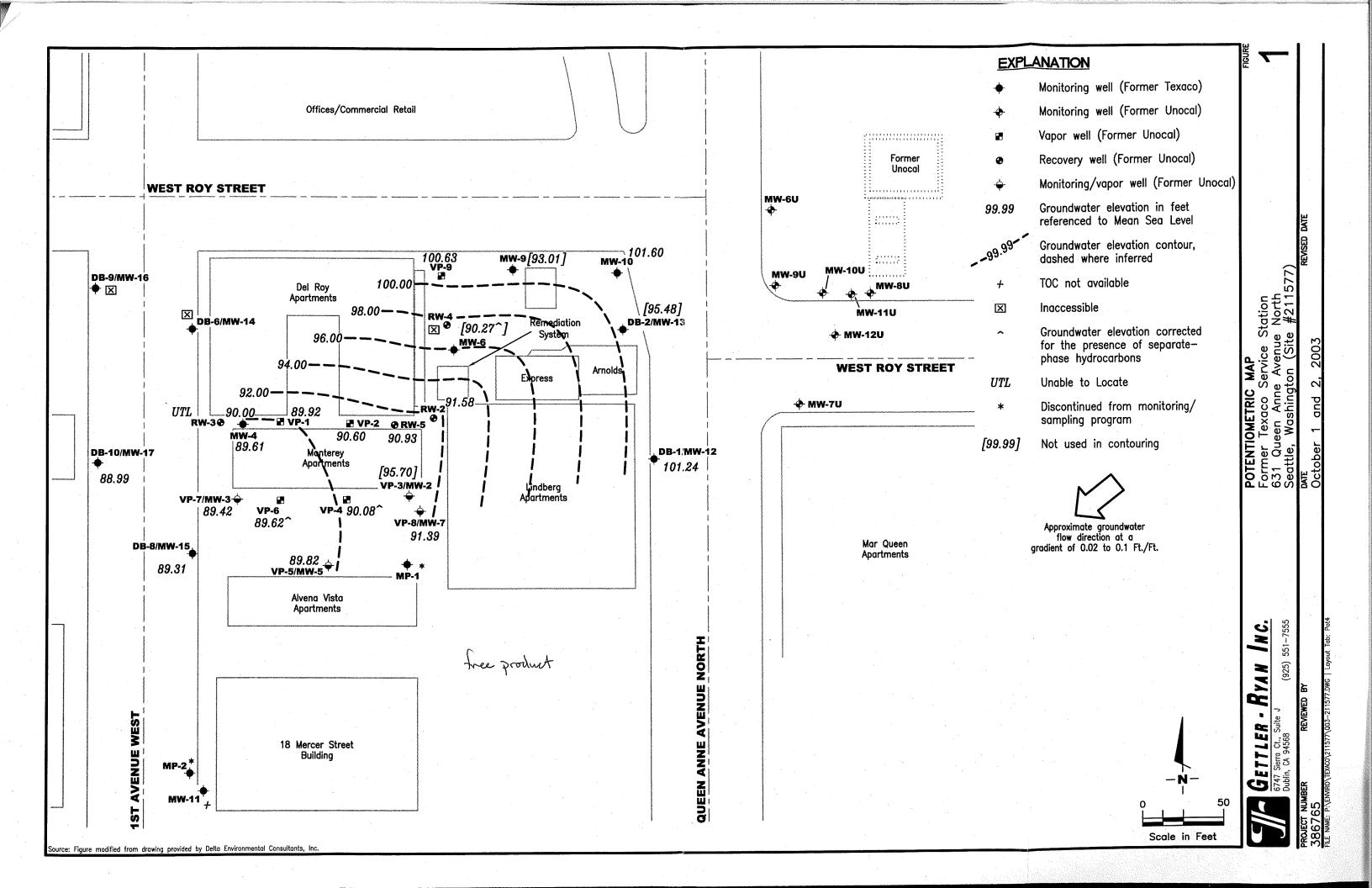


Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

631 Queen Anne Avenue North

Seattle, Washington

						Seattle, wasi	migion					<u>Gy</u>
		DTP	DTW	SPHT	GWE	TPH-D	ТРН-О	TPH-G	В	T	E	X
WELL ID/	DATE		(ft.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
TOC*(ft.)		(ft.)	()(.)	()1.)	(mos)	WE-Z						
VP-5 (MW-5)	07/04/00	DIACCECCI	DIE VEUM	TE DARKE	ED OVER WE	ELL						
102.63	07/24/02		12.31	0.00	90.32	3,900 ¹	<500¹	15,900	318	49.3	880	1,870
	10/17-18/02				ED OVER WE					·		
	01/21/03	INACCESSI	BLE - VEHI	CLE DADVI	ED OVER WI	ST I						
	04/23-24/03	INACCESSI	BLE - VEHI	CLE DADVI	ED OVER WI	EL I						
	06/30-07/01/03	INACCESSI		0.00	89.82	1,500 ¹	270¹	22,000	330	76	1,000	2,200
	10/01-02/03		12.81	0.00	09.02	1,500		,				
VP-6	07/24/02	10.60	12.18	1.58	90.98***	NOT SAMPLE	D DUE TO TH	E PRESENCE OF	F SPH			
101.90	10/17-18/02	11.35	12.10	0.65	90.42***			E PRESENCE OF				
		11.27	12.90	1.63	90.30***			E PRESENCE OF				
	01/21/03	10.75	10.90	0.15	91.12***			E PRESENCE OI				
	04/23-24/03		11.54	0.13	90.54***			E PRESENCE O			·	
	06/30-07/01/03		11.34 12.91	0.79	89.62**			HE PRESENCE				
	10/01-02/03	12.12	12.91	0.77	07.02	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
VP-7 (MW-3)							. 1		0.000	7,000	1,500	8,300
100.40	07/24/02		9.74	0.00	90.66	5,8001	580 ¹	60,000	8,200	7,000		10,800
	10/17-18/02		10.57	0.00	89.83	5,160 ¹	510 ^{1,2}	71,600	11,100	5,880	1,940	6,190
	01/21/03		10.29	0.00	90.11	714 ^{1,4}	<500¹	41,600	9,440	1,470	1,360	
	04/23-24/03	INACCESS	SIBLE - VEH	ICLE PARK	ED OVER W	ELL						
	06/30-07/01/03	3 10.08	10.11	0.03	90.31***			IE PRESENCE O				10.000
	10/01-02/03		10.98	0.00	89.42	3,800 ¹	520 ¹	61,000	10,000	4,500	2,000	10,000
						:						
VP-8 (MW-7)				:							24	50
104.88	07/24/02		11.70	0.00	93.18	1,800 ¹	420 ¹	1,500	9.4	9.2	34	50
107.00	10/17-18/02		. 12.78	0.00	92.10	1,8301	<500¹	552	9.75	1.45	4.25	5.73
	01/21/03		12.63	0.00	92.25	1,1201	<500¹	1,910	139	291	59.1	216
	04/23-24/03		10.72	0.00	94.16	8001	<500 ¹	700	65.6	35.7	22.9	69.8
	06/30-07/01/0		12.45	0.00	92.43	939 ¹	<500 ¹	379	2.68	1.57	3.70	4.69
	10/01-02/03		13.49	0.00	91.39	19,000 ¹	2,100 ¹	290	3.4	1.2	5.8	11
	10/01-02/03		1.J. 7 7	0.00	71.07							

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	DATE	DTP	DTW	SPHT	GWE	TPH-D	TPH-O	TPH-G	В		E	X
TOC*(ft.)	tyrit in an english ta	(fi.)	(ft.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
VP-1												
103.03	07/24/02		11.59	0.00	91.44	18,000	1,5001	35,000	120	820	280	4,600
	10/17-18/02		12.70	0.00	90.33	7,500 ¹	598 ^{1,2}	27,300	170	756	334	4,820
	01/21/03		12.70	0.00	90.33	14,2001	807 ^{1,2}	36,700	90.5	801	500	6,630
	04/23-24/03		11.63	0.00	91.40	2,8301	<500¹	24,200	110	136	225	2,780
	06/30-07/01/03		12.21	0.00	90.82	20,2001	1,7501	8,000 ⁷	36.8 ⁷	49.27	47.1 ⁷	6187
	10/01-02/03		13.11	0.00	89.92	40,0001	6,300	7,600	56	47	22	690
VP-2												
104.72	07/24/02	UNABLE TO	LOCATE				. 	 ,	 .	- <u>-</u> -		
	10/17-18/02		13.60	0.00	91.12	NOT SAMPLE	D DUE TO INS	UFFICIENT WA	TER			
	01/21/03		13.63	0.00	91.09	NOT SAMPLE	D DUE TO INS	UFFICIENT WA	TER			
	04/23-24/03		12.15	0.00	92.57	12,100 ¹	<250 ¹	6,230	549	42.6	106	1,120
	06/30-07/01/03	 .	12.51	0.00	92.21	35,900 ¹	1,3801	3,330	180	58.8	32.4	510
	10/01-02/03		14.12	0.00	90.60			SUFFICIENT V				
VP-3 (MW-2)												
104.75	07/24/02 I	ORY			· ·				 '		:	
	10/17-18/02 I	ORY								. 	i 	
	01/21/03 I	DRY										.
	04/23-24/03 I	DRY								***		
	06/30-07/01/03 I	ORY		,								
	10/01-02/03		9.05	0.00	95.70	NOT SAMPLI	ED DUE TO IN	SUFFICIENT V	VATER			
VP-4												
103.35	07/24/02		11.89	0.00	91.46	78,000 ¹	<9,700 ¹	89,000	7,300	7,500	1,900	13,000
	10/17-18/02	12.75	12.78	0.03	90.59***		•	E PRESENCE OF			1,500	15,000
	01/21/03	12.61	12.71	0.10	90.72***			E PRESENCE OF				
	04/23-24/03	11.72	11.75	0.03	91.62***			E PRESENCE OF				
	06/30-07/01/03	12.31	12.34	0.03	91.03***			E PRESENCE OF				
	10/01-02/03	13.26	13.29	0.03	90.08**			HE PRESENCE				

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

						Seattle, Wasl	hington					
CRIPT T TIS	DATE	DTP	DTW	SPHT	GWE	TPH-D	ТРН-О	TPH-G	В	T	E	X (ppb)
VELL ID/ FOC* <i>(ft.)</i>	DANE	(ft.)	(ft.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppu)
<u> </u>	<u> </u>											
/P-9												
12.35	07/24/02	NACCESSI	BLE - VEHIC	LE PARKE	D OVER WE	LL			11.2	2.62	8.86	14.7
12.50	10/17-18/02	-	11.90	0.00	100.45	13,200	786 ^{1,2}	1,910	11.3			
	01/21/03	[NACCESSI]	BLE - VEHIC	LE PARKE	D OVER WE	LL	 .			-0.500	< 0.500	<1.00
	04/23-24/03		8.28	0.00	104.07	<250 ¹	<500¹	<50.0	< 0.500	<0.500	5.07	3.28
	06/30-07/01/03		9.74	0.00	102.61	<250 ¹	<500¹	681	1.22	0.735		<10
	10/01-02/03		11.72	0.00	100.63	5,400 ¹	1,300 ¹	1,600	5.3	1.4	2.3	~10
MW-4							coal	02.000	11,000	9,900	1,800	11,000
102.07	07/24/02		11.18	0.00	90.89	10,000	680 ¹	83,000	•	11,600	2,630	15,200
	10/17-18/02		11.98	0.00	90.09	9,860¹	697 ^{1,2}	110,000	14,500		2,090	12,200
	(D) 10/17-18/02		·			7,100 ¹	<5001	92,400	12,400	9,980	1,920	11,700
	01/21/03		11.81	0.00	90.26	$2,540^{1.5}$	<500¹	80,000	10,700	10,100		10,300
	04/23-24/03		11.03	0.00	91.04	1,680 ¹	<500¹	79,300	8,990	7,350	1,780	15,300
	06/30-07/01/03		11.55	0.00	90.52	3,910 ¹	<500 ¹	108,000	12,100	11,200	2,630	
	10/01-02/03		12.46	0.00	89.61	3,8001	<500 ¹	100,000	9,700	11,000	2,000	12,000
MW-6							1			1.600	820	4,200
113.32	07/24/02		19.76	0.00	93.56	29,000¹	<10,0001	31,000	8,900	1,600	820.	
113.32	10/17-18/02	20.64	20.69	0.05	92.67***		ED DUE TO THI					
	01/21/03	21.71	21.74	0.03	91.60***		ED DUE TO TH			· 		
	04/23-24/03	20.88	20.91	0.03	92.43***		ED DUE TO TH					
	06/30-07/01/03	21.38	21.41	0.03	91.93***		ED DUE TO TH				·	
	10/01-02/03	23.04	23.07	0.03	90.27**	NOT SAMPL	ED DUE TO T	HE PRESENCI	E OF SPH			
MW-9						,	. 12		400	12.0	230	107
114.27	10/17-18/02		20.88	0.00	93.39	43,600 ¹	671 ^{1,2}	6,380	493	13.0		
•	01/21/03	INACCESS	SIBLE - VEHI	CLE PARK	ED OVER W		,		, -			
	04/23-24/03		20.04	0.00	94.23	3,680 ¹	<500 ¹	6,760	388	15.9	277	105
	06/30-07/01/03	INACCESS	SIBLE - VEHI	CLE PARK	ED OVER W	ELL		300 M		 * .	·	
	10/01-02/03		21.26	0.00	93.01	33,000 ¹	<5,000 ¹	3,500	110	30	100	<100

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North

Seattle, Washington

						Scattle, wasi	illigion	<u> </u>				
WELL ID/	DATE	DTP	DTW	SPHT	GWE	TPH-D	ТРН-О	TPH-G	В	T	E	X
TOC*(ft.)		(ft.)	(fi.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-10						•						
115.28	07/24/02		13.14	0.00	102.14	320 ¹	600¹	240	2.5	< 0.50	<1.0	<1.5
	10/17-18/02		13.59	0.00	101.69	667 ¹	<500¹	490	3.42	< 0.500	1.34	5.00
	01/21/03		12.46	0.00	102.82	<250 ¹	<500 ¹	416	3.44	0.550	0.519	3.24
	04/23-24/03	***	11.76	0.00	103.52	6	 ⁶	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	06/30-07/01/03		12.91	0.00	102.37	<250 ¹	<500¹	255	2.01	< 0.500	0.535	2.53
	10/01-02/03		13.68	0.00	101.60	<250 ¹	<250 ¹	190	2.6	<0.5	0.5	<3.0
						•						
MW-11	07/24/02		11.16	0.00		<250 ¹	<250¹	<50	<0.50	<0.50	< 0.50	-1.7
	10/17-18/02		11.43	0.00		<250 ¹	<500 ¹	<50.0	<0.500	<0.500		<1.5
	01/21/03		11.43	0.00		<250 ¹	<500 ¹				<0.500	<1.00
	04/23-24/03		11.29	0.00		<250 ¹	<500 ¹	<50.0	< 0.500	<0.500	<0.500	<1.00
								<50.0	<0.500	<0.500	< 0.500	<1.00
	06/30-07/01/03		11.39	0.00		<250 ¹	<500 ¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	10/01-02/03		12.10	0.00	WF 100	<250 ¹	<250 ¹	<50	<0.5	<0.5	<0.5	<1.5
DB-1 (MW-1)	2)											
113.36	10/17-18/02		12.22	0.00	101.14	<250 ¹	<500 ¹	<50.0	0.516	0.869	< 0.500	<1.00
	01/21/03		11.72	0.00	101.64	<250 ¹	<500 ¹	<50.0	< 0.500	< 0.500	<0.500	<1.00
	04/23-24/03		11.04	0.00	102.32	<250 ¹	<500 ¹	<50.0	< 0.500	<0.500	<0.500	
	06/30-07/01/03		11.32	0.00	102.04	1,690 ¹	<500 ¹	1,040	2.91	1.05	10.0	<1.00
	10/01-02/03		12.12	0.00	101.24	470 ¹	<250 ¹	69	1.2	<0.5	<0.5	26.5
						.,,		03	1.2	~0.5	<0.5	<1.5
DB-2 (MW-13	3)											
114.80	10/17-18/02		19.31/DRY	0.00	95.49	NOT SAMPLED	DUE TO IN:	SUFFICIENT WA	ATER	·		
	01/21/03		19.01/DRY	0.00	95.79	NOT SAMPLED				· 		
	04/23-24/03 IN	NACCESS	IBLE - VEHIC	LE PARKE								
	06/30-07/01/03		18.72/DRY	0.00	96.08	NOT SAMPLED	DUE TO INS	SUFFICIENT WA	ATER			.
	10/01-02/03		19.32/DRY	0.00	95.48	NOT SAMPLED						

Table 1

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North

Seattle, Washington

						, ,		e managania sa	C. 1981 - 44 19 19 19 1	(1) (1) 17 (1) (1) (1)	E	X
WELL ID/	DATE	DTP	DTW	SPHT	GWE	TPH-D	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	(ppb)	(ppb)	(ppb)
TOC*(ft.)		(ft.)	(ft.)	(ft.)	(msl)	(ppb)	(РРО)	(PPV)	GF.			
DB-6 (MW-14)												
101.64	10/17-18/02		-			 1		$43,100^3$	$9,900^3$	$4,930^3$	$1,540^3$	$6,020^3$
	11/14/02		11.88	0.00	89.76	4,710 ¹	<500 ¹		9,500			
	01/21/03	INACCESSI	BLE - VEHIC	LE PARKE	D OVER WEI	LL .						
	04/23-24/03	INACCESSI	BLE - VEHIC	LE PARKE	D OVER WEI	LL						
	06/30-07/01/03	INACCESSI	BLE - VEHIC	CLE PARKE	D OVER WE	LL				. 		
	10/01-02/03	INACCESS	IBLE - VEHI	CLE PARK	ED OVER V	ÆLL	 1		12.000	9,900	1,600	7,900
	10/14/038,10					2,100 ¹	130 ¹	69,000	12,000	9,900	1,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DB-8 (MW-15)												
99.03	10/17-18/02					,	1		1.640	5.23	5.06	<10.0
	11/14/02		9.44	0.00	89.59	780¹	<500 ¹	3,280	1,640	< 0.500	< 0.500	<1.00
	01/21/03		9.29	0.00	89.74	<250 ¹	<500 ¹	< 50.0	< 0.500		~0.500 	-1.00
	04/23-24/03	INACCESS	IBLE - VEHIO	CLE PARKE	D OVER WE	LL						
	06/30-07/01/0	3 INACCESS	IBLE - VEHIC	CLE PARKE	ED OVER WE	LL					40	110
	10/01-02/03	-	9.72	0.00	89.31	410 ¹	<250 ¹	810	1,700	60	48	110
	10,01 01,01									*.		
								•				
DB-9 (MW-16)									•			
101.83	10/17-18/02											
101.63	11/14/02		12.36	0.00	89.47	<250 ¹	<500¹	< 50.0	< 0.500	< 0.500	< 0.500	<1.00
	01/21/03		11.88	0.00	89.95	<250 ¹	<500 ¹	< 50.0	< 0.500	< 0.500	< 0.500	<1.00
	04/23-24/03	INACCESS	SIBLE - VEHI		ED OVER WE	ELL				'		
	06/30-07/01/0							,	 ,			
	10/01-02/03	INACCES	SIBLE - VEH	IICLE PAR	KED OVER	WELL					· <u>-</u>	
	10/01-02/03 10/14/03 ^{8,9}		GIDDE - 4 DII			<160 ¹	<200¹	740	26	1.0	3.8	3.6
	10/14/03"											

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

							Scattle, wasi	mgwn					
WELL ID: TOC*(ft.)	/	DATE	DTP (ft.)	DTW (ft.)	SPHT (ft.)	GWE (msl)	TPH-D <i>(ppb)</i>	ТРН-О <i>(ppb)</i>	TPH-G (ppb)	В <i>(ppb)</i>	T (ppb)	E (nnh)	X
. oc (ju)	<u> </u>		y.J	Ui-J	01.0	(msi)	(PPO)	(PPO)	(рри)	(սկս)	(բրս)	(ppb)	(ppb)
DB-10 (M	W-17)											
99.29		10/17-18/02											
		11/14/02		10.00	0.00	89.29	<250 ¹	<500 ¹	2,780	569	31.0	91.1	250
		01/21/03		9.62	0.00	89.67	<250 ¹	<500 ¹	< 50.0	< 0.500	< 0.500	< 0.500	<1.00
		04/23-24/03	INACCESSI	BLE - VEHIC	LE PARKEI	OVER WE	ELL						
		06/30-07/01/03	INACCESSI	BLE - VEHIC	LE PARKEL	OVER WE	ELL	. We wan					·
		10/01-02/03		10.30	0.00	88.99	<250 ¹	<250 ¹	1,100	420	69	38	130
RW-2													
106.63		07/24/02	UNABLE TO				1						
	NP	10/17-18/02		14.44	0.00	92.19	9881	<500¹	1,380	90.5	8.05	29.2	31.5
	NP	01/21/03		10.61	0.00	96.02	<250¹	<500¹	126	33.5	0.859	1.28	4.11
		04/23-24/03		10.30	0.00	96.33	<250 ¹	<500 ¹	55.7	< 0.500	< 0.500	0.642	2.64
		06/30-07/01/03		13.72	0.00	92.91	5051	<500 ¹	2,380	53.5	8.72	39.8	43.2
		10/01-02/03		15.05	0.00	91.58	1,4001	<250 ¹	2,300	75	7.3	29	33
RW-3													
100.70		07/24/02	UNABLE TO	LOCATE									
		10/17-18/02	UNABLE TO						· ·	·	. 		
		01/21/03	UNABLE TO										
		04/23-24/03	UNABLE TO		-								
		06/30-07/01/03						. <u></u>					
			UNABLE TO										
											<u>-</u> -		
										· ·			
RW-4													
110.82		07/24/02		18.30	0.00	92.52	15,0001	<2,0001	990	62	1.3	32	7.0
		10/17-18/02	we ve	19.29	0.00	91.53	8,930 ¹	939 ¹	3,160	59.8	2.50	40.4	15.6
		01/21/03		17.88	0.00	92.94	2,830 ¹	<500 ¹	689	0.991	< 0.500	2.37	7.03
			INACCESSIE		LE PARKED	OVER WE	LL						
				BLE - VEHIC									7.03

Table 1 **Groundwater Monitoring Data and Analytical Results**

Former Texaco Service Station (Site #211577)

631 Queen Anne Avenue North

Seattle, Washington

NAME OF TAXABLE	DATE	DTP	DTW	SPHT	GWE	TPH-D	ТРН-О	TPH-G	В	T	E	X
WELL ID/ FOC* <i>(ft.)</i>	DAIL	(fi.)	(ft.)	(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
oc gu)	and the second of the second	0.0	0.0	U /								
RW-5												
04.22	07/24/02	UNABLE TO	LOCATE							·		
04.22	10/17-18/02		12.63	0.00	91.59	84,900 ¹	3,650 ¹	3,370	696	67.2	63.0	408
NΡ	01/21/03		11.81	0.00	92.41	1,8601	<500¹	493	17.1	4.43	1.37	52.9
INF	04/23-24/03		11.31	0.00	92.91	$2,050^{1}$	<500 ¹	2,490	9.73	13.4	< 5.00	870
	06/30-07/01/03		11.91	0.00	92.31	8,0101	<500¹	2,170	34.6	20.3	8.10	1,050
	10/01-02/03		13.29	0.00	90.93		ED DUE TO IN	SUFFICIENT V	VATER			
	10/01-02/03											
						4.0						
IP-1	07/24/02	INACCESIB	LE - UNABL	E TO OPEN	N WELL							
11-1			LE - UNABL					- -	. 			
			ED									
	NOT MONITO		ED									
			ED									
4 P_ 2	NOT MONITO	RED/SAMPL		CLE PARKE	ED OVER W	/ELL		. 				
1P-2	NOT MONITOI 07/24/02	RED/SAMPL	ED BLE - VEHIC 	CLE PARKE	ED OVER W 	/ELL 			 ,		 	
1P-2	07/24/02 10/17-18/02	RED/SAMPL INACCESSI	BLE - VEHIO	CLE PARKE	ED OVER W 	VELL 		 	 , , ,		 ,	
1P-2	NOT MONITOI 07/24/02	RED/SAMPL INACCESSI	BLE - VEHIO	CLE PARKE	ED OVER W 	VELL 			 , , , ,		 	
1P-2	07/24/02 10/17-18/02	RED/SAMPL INACCESSI	BLE - VEHIO	CLE PARKE 	ED OVER W 	VELL 			 		 	
	07/24/02 10/17-18/02	RED/SAMPL INACCESSI	BLE - VEHIO	CLE PARKE 	ED OVER W 	VELL 			 		 	
rip Blank	07/24/02 10/17-18/02 NOT MONITO	RED/SAMPL INACCESSI	BLE - VEHIO	CLE PARKE 	ED OVER W 	VELL		 <50	 <0.50	 <0.50	 <0.50	 <1.5
rip Blank	07/24/02 10/17-18/02 NOT MONITO	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO	CLE PARKE 	 	/ELL 		 <50 <50.0	<0.50 <0.500	<0.50 <0.500	 <0.50 <0.500	
rip Blank	07/24/02 10/17-18/02 NOT MONITO 07/24/02 10/17-18/02	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO ED 	 		 		<50.0				<1.00
rip Blank	07/24/02 10/17-18/02 NOT MONITO 07/24/02 10/17-18/02 11/14/02	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO ED 	 	 - - - - - -				< 0.500	< 0.500	< 0.500	<1.00
rip Blank	07/24/02 10/17-18/02 NOT MONITO 07/24/02 10/17-18/02 11/14/02 01/21/03	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO ED 	 	 	 		<50.0 <50.0	< 0.500	<0.500 <0.500	<0.500 <0.500	<1.00 <1.00
rip Blank	07/24/02 10/17-18/02 NOT MONITO! 07/24/02 10/17-18/02 11/14/02 01/21/03 04/23-24/03	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO ED 	 	 	 		<50.0 <50.0 <50.0	<0.500 <0.500 <0.500	<0.500 <0.500	<0.500 <0.500 	<1.00 <1.00 <1.00
1P-2 Frip Blank QA	07/24/02 10/17-18/02 NOT MONITO 07/24/02 10/17-18/02 11/14/02 01/21/03	RED/SAMPL INACCESSI RED/SAMPL	BLE - VEHIO ED 	 	 	 	 	<50.0 <50.0	<0.500 <0.500 	<0.500 <0.500 <0.500	<0.500 <0.500 <0.500	<1.00 <1.00

	TPH-D	ТРН-О	TPH-G	В	Т	E	X
Standard Laboratory Reporting Limits:	250	250	50	0.5	0.5	0.5	1.5
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000
Current Method:	NWTPH-E	Extended		NWT)	PH-G and EPA	8021B	

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Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577) 631 Oueen Anne Avenue North Seattle, Washington

EXPLANATIONS:

TOC = Top of Casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

-- = Not Measured/Not Analyzed

(ft.) = Feet

B = Benzene

OA = Quality Assurance/Trip Blank

DTW/P = Depth to Water or Product

T = Toluene

NP = No Purge

GWE = Groundwater Elevation

E = Ethylbenzene

MTCA = Model Toxics Control Act Cleanup Regulations

(msl) = Mean Sea Level

[WAC 173-340-720(2)(a)(I), as amended 02/01].

X = Xylenes

TPH-D = Total Petroleum Hydrocarbons as Diesel

D. LEAD = Dissolved Lead

TPH-O = Total Petroleum hydrocarbons as Oil

(ppb) = Parts per billion

- TOC elevations have been surveyed in feet relative to msl.
- GWE corrected for the presence of SPH; correction factor: [(TOC DTW) + (SPHT x 0.8)].
- GWE corrected for the presence of SPH; correction factor: [(TOC DTP SPHT) + (SPHT x 0.8)]: Historical data has been altered to correct error in original reporting of depth to product as depth to water.
- Analysis with silica gel cleanup.
- Laboratory report indicates the heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Laboratory report indicates this sample was received and analyzed unpreserved.
- Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- Sample broke during transport to laboratory.
- Laboratory report indicates this sample was analyzed outside of our recommended holding time. See case narrative.
- Data provided by SAIC.
- MTBE by EPA Method 8021 was not detected at or above 10 ppb.
- MTBE by EPA Method 8021 was not detected at or above 250 ppb.
- MTBE by EPA Method 8021 was not detected at or above 2.5 ppb.

Table 2
Separate Phase Hydrocarbon Thickness/Removal Data

					MOUNT BAILED
WELL ID	DATE	DTP	DTW	THICKNESS (ft.)	(SPH + WATER) (gallons)
		(ft.)	(ft.)	U+7	18
VP-4	10/17-18/02	12.75	12.78	0.03	0.00
Y 1	01/21/03	12.61	12.71	0.10	0.00
	04/23-24/03	11.72	11.75	0.03	0.00
	06/30-07/01/03	12.31	12.34	0.03	0.00
	10/01-02/03	13.26	13.29	0.03	0.00
		•			
VP-6	07/24/02	10.60	12.18	1.58	0.00
V I - U	10/17-18/02	11.35	12.00	0.65	0.00
	01/21/03	11.27	12.90	1.63	0.00
	04/23-24/03	10.75	10.90	0.15	0.00
	06/30-07/01/03	11.32	11.54	0.22	0.00
	10/01-02/03	12.12	12.91	0.79	0.00
VP-7	06/30-07/01/03	10.08	10.11	0.03	0.00
¥1-1	10/01-02/03		10.98	0.00	0.00
MW-6	10/17-18/02	20.64	20.69	0.05	0.00
171 77 -0	01/21/03	21.71	21.74	0.03	0.00
	04/23-24/03	20.88	20.91	0.03	0.00
	06/30-07/01/03	21.38	21.41	0.03	0.00
	10/01-02/03	23.04	23.07	0.03	0.00

EXPLANATIONS:

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons

-- = Not Measured

Note: Historical data has been altered to correct error in original reporting of depth to product as depth to water.

Table 3
Groundwater Analytical Results - SVOC and PAH

				Beattle, **					
WELL ID	DATE	(9dd) (9dd)	(9d 2,4-Dimethylphenol	Naphthalene	Pheno(dadd)	(9dd)	(ddd)	d) bis (2-Ethylhexyl) phthalate	(dqq)
VP-1	07/24/2002	-84	80	160	ND	13	18	31	<10
VP-2	07/24/2002	UNABLE TO LOCA	TE			<u></u>			
VP-5 (MW-5)	07/24/2002	INACCESSIBLE - V	EHICLE PARK	ED OVER WELL	·				·
VP-7 (MW-3)	07/24/2002	69	28	420	ND	<5.0	6	<10	34
VP-8 (MW-7)	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10
VP-9	07/24/2002	INACCESSIBLE - V	EHICLE PARK	ED OVER WELL					
MW-4	07/24/2002	160	24	500	ND	6	9	<10	<10
MW-10	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	13	<10
MW-11	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10

Table 3
Groundwater Analytical Results - SVOC and PAH

WELL ID BATE (ppb)					Seattle, Was	hington				
DB-1 (MW-12) 10/17-18/02 <10.0 <10.0 <10.0 <10.0 <10.0 - <50.0 <20.0 <20.0 DB-2 (MW-13) 10/17-18/02	WELL ID	DATÉ		gg 2,4-Dimethylphenol			(9 2-Methylphenol		(gd bis.(2-Ethylhexyl) phthalate	
DB-2 (MW-13) 10/17-18/02	DR-1 (MW-12)	10/17-18/02			<10.0	<10.0	<10.0		<50.0	<20.0
DB-2 (MW-13) 10/17-18/02	DB-1 (MW-12)	10/17 10/02								
DB-6 (MW-14) 10/17-18/02	DB-2 (MW-13)	10/17-18/02				<u></u>				
DB-6 (MW-14) 10/17-18/02								•		
11/14/02 52.2 13.4 242 34.5 11.0 24.8 <50.0 <20.0 DB-8 (MW-15) 10/17-18/02	DB-6 (MW-14)	10/17-18/02				·		 		~20.0
DB-8 (MW-15) 10/17-18/02	·	11/14/02	52.2	13.4	242	34.5	11.0	24.8	<30.0	~20.0
DB-8 (MW-15) 10/17-18/02										•
DB-8 (MW-15) 10/17-18/02									w-	
11/14/02 <10.0 <10.0 \text{10.0} \text{5.0} \text{ND} <5.0 <5.0 <10 <10	DB-8 (MW-15)							<10.0 ¹	<50.0	
RW-4 07/24/2002 <5.0 <5.0 ND <5.0 <5.0 <10 <10		11/14/02	<10.0	<10.0	<10.0	37.0	<10.0	~10.0	\30.0	20.0
RW-4 07/24/2002 <5.0 <5.0 ND <5.0 <5.0 <10 <10										
	RW-4	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10
				4						

Groundwater Analytical Results - SVOC and PAH

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North Seattle, Washington

EXPLANATIONS:

(ppb) = Parts per billion-- = Not AnalyzedND = Not Detected

Results are for 3 & 4-Methylphenol.

ANALYTICAL METHODS:

Semi-Volatile Organic Compounds (SVOC) by EPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAH) by EPA Method 8270

NOTE:

Other PAH and SVOC constituents were less than the reporting limit.

Groundwater Analytical Results - SVOC

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North

Seattle, Washington

								5041111	, wasiii	8				202 1 2 2 2 3 1			. 1907 11710 0	90 T 190		
WELL ID/	ДАТЕ	(dg Chloroform	લે cis-1,2-Dichloroethene	Benzene	enene Joinene (ppb)	(gddd) (gdenzene	d Tetrachloroethene	dd Trichloroethene (g	m+p-Xylene	ene -X. -X. -γ. (dqq)	(dqq)	(pdd)) (pdd)	dd 1,3,5-Trimethylbenzene	dd 1,2,4-Trimethylbenzene	(d sec-Butylbenzene	(g. p-kopropyltoluene	d n-Butylbenzene	(gd Naphthalene	(g. Methyl t-butyl ether	(ddd)
VP-3 (MW-2)	07/24/02	DRY				. 														
VP-5 (MW-5)	07/24/02	INACCI	ESSIBLE	E - VEHIO	CLE PAF	RKED OV	/ER WI	ELL												
VP-7 (MW-3)	10/17-18/02								· ===			. 							<10.0	<100
VP-9	07/24/02	INACCI	ESSIBLE	E - VEHIO	CLE PAI	RKED O	VER W	ELL					- -		. · · · · · · · · · · · · · · · · · · ·				<u></u> ·	
MW-4	07/24/02 10/17-18/02	ND 	<8.0 	12,000	10,000	1,800	ND 	ND 	8,900	3,500	46	140	500	1,800	<10	<10	23	360	6 <50.0	120 <500
MW-10	07/24/02	ND	15	2	<0.5	<0.5	ND	ND	<0.5	z<0.5 _c	<2	<1	<1	<1	1	z <1 °	<1	<2	<2	<100
MW-11	07/24/02	ND	<1	<0.5	<0.5	<0.5		ŅD	<0.5	<0.5	<2	<1	<1	<1	<1	<1	<1	<2	<2	<100
DB-1 (MW-12)	10/17-18/02	1.68	9.07	<1.00	<1.00	<1.00	9.58	2.75	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<50.0

Groundwater Analytical Results - SVOC

Former Texaco Service Station (Site #211577)

WELL ID/	DATE	(gddd) (gddd)	d cis-1,2-Dichloroethene	Benzene (9dad)	Folnene (opple)	र्व (वृत्र Ethylbenzene	dd) Tetrachloroethene	(gdd) Trichloroethene	m+p-Xylene (ppb)	o-Xylene	(dqq) Isopropylbenzene	(qda) n-Propylbenzene	d 1,3,5. Trimethylbenzene	d 1,2,4-Trimethylbenzene	dd sec-Butylbenzene	d p-Isopropyltoluene	d n-Butylbenzene	(dqq) (dq Naphthalene	(qd Methyl t-butyl ether	dd t-Butyl alcohol
DB-2 (MW-13)	10/17-18/02					<u></u>														
DB-6 (MW-14)	10/17-18/02			· <u></u>								 			· <u></u>					
DB-8 (MW-15)	10/17-18/02									 -										
RW-4	07/24/02	ND	<1	70	1	36	ND	ND	3	2	<2	3	<1	20	<1	2	1	5	<2	<100

Groundwater Analytical Results - SVOC

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North Seattle, Washington

EXPLANATIONS:

(ppb) = Parts per billionSVOC = Volatile Organic Compounds-- = Not AnalyzedND = Not Detected

ANALYTICAL METHOD:

SVOC by EPA Method 8260

NOTE:

Other SVOC were less than the reporting limit.

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Table 5 Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

WELL ID/	DATE	MERCURY	ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
7D 1	07/04/00					22.0			
VP-1	07/24/02					22.9			.
	10/17-18/02 ¹				***	18.0			.
	01/21/03	. 1			MP GR	47.1			
	04/23-24/03					36.4 ²			
	06/30-07/01/03					13.2^{2}			
	10/01-02/03					31.2 ²			an m
VP-2	07/24/02	UNABLE TO LOCA	TE			· <u></u>			
	10/17-18/02	NOT SAMPLED DU	E TO INSUFFIC	TIENT WATER					
	01/21/03	NOT SAMPLED DU	E TO INSUFFIC	IENT WATER					
	04/23-24/03		·			1.52^{2}			
	06/30-07/01/03			**************************************		3.97^{2}			
	10/01-02/03	NOT SAMPLED DI	UE TO INSUFFI	CIENT WATER					
/P-3 (MW-2)	07/24/02	DRY							
2 (1.1.1. 2)	10/17-18/02	DRY							
	01/21/03	DRY					••	·	
	04/23-24/03	DRY					: 		
								·	,
		DRY							
	10/01-02/03	NOT SAMPLED DU	JE TO INSUFFI	CIENT WATER					
P-4	07/24/02					28.0	·		. <u></u>
	10/17-18/02	NOT SAMPLED DU	E TO THE PRES	ENCE OF SPH					
	01/21/03	NOT SAMPLED DU				:		, 	
		NOT SAMPLED DU							
		NOT SAMPLED DU			·	:			
							. 		,
		NOT SAMPLED DU			<u></u> <u></u>		 		

Table 5
Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

		MEDCHDY	ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
WELL ID/	DATE	MERCURY (ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
		(рро)	APPO			-			
7D 5 (MIN 5)	07/24/02	INACCESSIBLE - V	ZEHICLE PARKE	D OVER WELL		-			
P-5 (MW-5)	10/17-18/02			. ·		2.29			
	01/21/03	INACCESSIBLE - V	VEHICLE PARKE	D OVER WELL				 .	
	04/23-24/03	INACCESSIBLE - Y				. 		 .	
	06/30-07/01/03	INACCESSIBLE - '			'				
	10/01-02/03					2.4 ²			
	10/01 02/00								
P-6	07/24/02	NOT SAMPLED - I				- -			···································
	10/17-18/02	NOT SAMPLED D							
	01/21/03	NOT SAMPLED D					 .		
	04/23-24/03	NOT SAMPLED D							
	06/30-07/01/03	NOT SAMPLED D							
	10/01-02/03	NOT SAMPLED I	OUE TO THE PR	ESENCE OF SPH					
						25.0	<1.1	0.068	33.6
/P-7 (MW-3)	07/24/02	< 0.079	97.3	<0.080	2.2	25.0		0.008	
	10/17-18/02	<u></u>			. .	2.40 <1.00			
	01/21/03								
	04/23-24/03	INACCESSIBLE -			±-100				
	06/30-07/01/03	NOT SAMPLED D	UE TO THE PRE	SENCE OF SPH		1.8 ²			
	10/01-02/03					1.0			· ·
									!
			2.1	0.13	0.82	11.4	<1.1	< 0.050	49.6
VP-8 (MW-7)	07/24/02	< 0.079	2.1		0.62	1.93		, 	·
	10/17-18/02					8.33			
	01/21/03				-	3.73^2	· 		· · ·
	04/23-24/03					2.06^{2}			
	06/30-07/01/03				. ·	2.42			
	10/01-02/03	 '							

Table 5 Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North Seattle, Washington

WELL ID/		DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
VP-9		07/24/02	INACCESSIBLE -	- VEHICLE PARKE	D OVER WELL	·				
		10/17-18/02					<1.00			,
		01/21/03	INACCESSIBLE -	- VEHICLE PARKE	D OVER WELL		- -			
		04/23-24/03					$<1.00^{2}$			
		06/30-07/01/03	~~				$<1.00^{2}$			
		10/01-02/03		. 			3			
MW-4		07/24/02	< 0.079	31.0	<0.080	<0.28	15.5	<1.1	< 0.050	63.8
		10/17-18/02					10.7			
	(D)	10/17-18/02					9.61			
	, .	01/21/03		·			14.5			
		04/23-24/03				·	5.74 ²			
		06/30-07/01/03					7.85 ²			
		10/01-02/03			- -		7.1 ²			.
MW-6		07/24/02					5.1		·	
		10/17-18/02	NOT SAMPLED I	OUE TO THE PRES	ENCE OF SPH					
		01/21/03	NOT SAMPLED I	OUE TO THE PRES	ENCE OF SPH	<u></u>			· -	
		04/23-24/03	NOT SAMPLED I	OUE TO THE PRES	ENCE OF SPH				- -	
		06/30-07/01/03	NOT SAMPLED I	OUE TO THE PRES	ENCE OF SPH					
		10/01-02/03	NOT SAMPLED	DUE TO THE PRE	SENCE OF SPH	:			<u>-</u> '	
MW-9		10/17-18/02				**************************************	2.66			
		01/21/03	INACCESSIBLE -	VEHICLE PARKE	D OVER WELL			 · · ·		
		04/23-24/03			,		1.31 ²		*** *** -	
r		06/30-07/01/03	INACCESSIBLE -	VEHICLE PARKE	D OVER WELL					
		10/01-02/03		· •••			3.9^2			

Table 5
Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

				Seattle, Wa	sningion				
WELL ID/	DATE	MERCURY	ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
WEED ID		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
			-					0.050	50.1
MW-10	07/24/02	< 0.079	4.1	0.17	0.38	1.3	<1.1	< 0.050	52.1
	10/17-18/02	<u></u>		- Jan		<1.00			
	01/21/03					<1.00			
	04/23-24/03		·			<1.00 ²	 '		
	06/30-07/01/03					$<1.00^{2}$			
	10/01-02/03	ware .				<1.2 ²	, -		
						<1.2			
MW-11	07/24/02					<1.00		·	
	10/17-18/02	W-				<1.00			
	01/21/03					<1.00 $<1.00^2$			
	04/23-24/03							- -	
	06/30-07/01/03	 .				$<1.00^{2}$			
	10/01-02/03		. 	***		<1.2 ²			
DB-1 (MW-12)	01/21/03					<1.00	·		
DD 1 (12)	04/23-24/03			- -		$<1.00^{2}$			
	06/30-07/01/03					$<1.00^{2}$			·
	10/01-02/03				·	<1.2 ²		· ·	
	10/01-02/03								
DB-2 (MW-13)	01/21/03	NOT SAMPLED D	UE TO INSUFFICE	IENT WATER		-		· 	
	04/23-24/03	INACCESSIBLE -	VEHICLE PARKE	D OVER WELL			·	- -	
	06/30-07/01/03	NOT SAMPLED D			_ 	 ,			
	10/01-02/03	NOT SAMPLED			·				
						. 1			
				<1.00	<1.00	1.82	1.48	<1.00	18.4
DB-6 (MW-14)	11/14/02	<1.00	17.0	<1.00			1.70		
	01/21/03	INACCESSIBLE -			· 				
	04/23-24/03	INACCESSIBLE -					, 		
	06/30-07/01/03	INACCESSIBLE -							
	10/01-02/03	INACCESSIBLE	- VEHICLE PARK	KED OVER WELL			#4		

Table 5 Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

WELL ID/	DATE		ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
DB-8 (MW-15)	11/14/02	<1.00	1.33	<1.00	<1.00	1.04	<1.00	<1.00	<10.0
.,	01/21/03					<1.00			
	04/23-24/03	INACCESSIBLE - VE	HICLE PARKE	ED OVER WELL					
	06/30-07/01/03	INACCESSIBLE - VE	HICLE PARKE	ED OVER WELL			· ·		
	10/01-02/03					<1.2 ²			
DB-9 (MW-16)	11/14/02					<1.00	· .		
DD-9 (M W-10)	01/21/03					<1.00			
	04/23-24/03	INACCESSIBLE - VE	HICLE DADKE	D OVER WELL					
	06/30-07/01/03	INACCESSIBLE - VE							
	10/01-02/03	INACCESSIBLE - VE							
DB-10 (MW-17)	11/14/02					<1.00			
	01/21/03					<1.00			
	04/23-24/03	INACCESSIBLE - VE	HICLE PARKE	ED OVER WELL			, 		'
	06/30-07/01/03	INACCESSIBLE - VE	HICLE PARKE	ED OVER WELL				, 	
	10/01-02/03					<1.2 ²		·	
RW-2	07/24/02	UNABLE TO LOCATI	E						
	10/17-18/02					2.23			<u></u>
	01/21/03					<1.00			
	04/23-24/03				- -	$<1.00^{2}$			·
	06/30-07/01/03				·	1.43 ²			·
	10/01-02/03			'		4.9^2	 .	- -	

Table 5
Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

WELL ID/	DATE	MERCURY ARSEN		CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
RW-3	07/24/02	UNABLE TO LOCATE						
	10/17-18/02	UNABLE TO LOCATE		2 m	, =-			
	01/21/03	UNABLE TO LOCATE			'			
	04/23-24/03	UNABLE TO LOCATE					- -	
	06/30-07/01/03	UNABLE TO LOCATE				 , '	` 	
	10/01-02/03	UNABLE TO LOCATE	ab 40°					
		,						
	07/24/02	<0.079 6.1	<0.080	1.2	3.3	<1.1	< 0.050	66.9
RW-4	07/24/02	\0.079 0.1			1.23			
	10/17-18/02	·			<1.00	 ,		·
	01/21/03	INACCESSIBLE - VEHICLE	PARKED OVER WELL					
	04/23-24/03	INACCESSIBLE - VEHICLE		. ·				
	06/30-07/01/03 10/01-02/03	INACCESSIBLE - VEHICLE	LE PARKED OVER WELL	. 				
	0.710.4100	UNABLE TO LOCATE						 -
RW-5	07/24/02	UNABLE TO LOCATE			3.91		·	
	10/17-18/02		- -		13.3			
	01/21/03				7.31 ²	·	·	
	04/23-24/03				1.98^{2}			
	06/30-07/01/03 10/01-02/03	NOT SAMPLED DUE TO I	INSUFFICIENT WATER			<u></u>		

Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577) 631 Queen Anne Avenue North Seattle, Washington

EXPLANATIONS:

(ppb) = Parts per billion

-- = Not Analyzed

(D) - Duplicate

ANALYTICAL METHODS:

Dissolved Metals by EPA Method Series 7000 Barium TR by EPA Method 6010B

- Organic Lead was <300 ppb.
- Laboratory report indicates this sample was laboratory filtered.
- Due to limited sample volume; no results will be provided.

Table 6

Groundwater Analytical Results - Oxygenate Compounds

Former Texaco Service Station (Site #211577)

631 Queen Anne Avenue North Seattle, Washington

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
DB-1 (MW-12)	10/18/02	· <u></u> ·	<50.0	<5.00		<1.00	<1.00		 .
VP-7 (MW-3)	10/18/02	<40.0	<100	<10.0	<2.00	<2.00	<2.00	<1.00	<1.00
MW-4	10/18/02	<200	<500	<50.0	<10.0	<10.0	<10.0	<5.00	<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

1,2- DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexaco	#211577		b Number: 🙎				
Site Address:	631 Queen Ann		E	vent Date: D	-10-2-	03	<u> </u>	_(inclusiv
City:	Seattle, WA		S	ampler: _	BWN			
Well ID	\IP - 1	Date	Monitored: 10	11/03	Well C	Condition:	ok	
Well Diameter Total Depth	2 in.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80	
Depth to Water	13.11 ft. 1.47 xV	- 17	_= , 25x3	(case volume) = E	stimated Pu	ırge Volume:	,75 ga	l. (2400 hrs)
Purge Equipment: Disposable Bailer	J	Dispo	oling Equipment: osable Bailer sure Bailer	<u></u>	Time Ba Depth to Depth to	iled: Rroduct: Water:	1	(2400 hrs) ft f
Stainless Steel Baile Stack Pump Suction Pump			ete Bailer		Visual C	rbon Thickne confirmation D	escription: Sock (circle or	ft
Grundfos Other:		· ·			Amt Re	noved from S moved from V	kkimmer: Vell:	gal
Start Time (purg	ge): 8 00	Weath	ner Conditions:	Foggy		Odor:	yٰون ع	
Sample Time/D	ete: 815 /		Water Color:	clear		Oddi.	755	<u> </u>
Purging Flow R Did well de-wat		Sedime If yes, Time	ent Description: e: <u>868</u>	Volume:	75 g	al.		· ·
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (u mhos/cm)	Temperature (C/)		D.O. ng/L)	ORP (mV)	
\$05	.75	6.84	298	12.2				
			BORATORY INFO	ORMATION	ov I	ΔΝ	ALYSES	1.
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATOR LANCASTER		S/BTEX/MTBE		
<u> </u>	3 x voa vial	YES YES	HCL HCL	LANCASTER		Ox w/sg		
46 - 1	x amber	160						
COMMENTS	: Only 1 T	PH LD) S	ample taken	due to i	insuffic	iait w	ter	
Add/Rer	olaced Lock:			\dd/Replaced	Plug:		Size:	•



WELL MONITORING/SAMPLING FIELD DATA SHEET

Oʻta Addanasa					
Site Address:	631 Queen Ann	ne North	Event Date: 10	1-10-2-B	(inclusi
City:	Seattle, WA		Sampler:	BW	
Well ID	VP - 2	Date Monitored:	10/1/03	Well Condition: 0	
Well Diameter Total Depth Depth to Water	2 in. i4,44 ft. 14,12 ft.	Volume Factor (V	3/4"= 0.02 (F) 4"= 0.66		0.38 5.80
Deptit to water		/F=	_x3 (case volume) = E	Stimated Purge Volume:	gal.
Purge Equipment:		Sampling Equipmen	nt:	Time Started: Time Bailed: Depth to Product:	(2400 hrs)
Disposable Bailer Stainless Steel Baile	<u></u>	Rressure Bailer		Depth to Water:	f
Stack Pump Suction Pump		Discrete Bailer Other:		Hydrocarbon Thickness: Visual Confirmation/Descript	ion:
Grundfos Other:				Skimmer / Absorbant Sock (c Amt Removed from Skimmer Amt Removed from Well:	r: gal
				Product Transferred to:	
	7		· · · · · · · · · · · · · · · · · · ·		
	ter? Volume	Sediment Description If yes, Time: Conductivity (u mhos/cm)		/ \	DRP mV)
Did well de-wat	ter? Volume	If yes, Time:	Volume:	D.O. C	
Did well de-wat	Volume (gal.)	If yes, Time:	Temperature (C/F)	D.O. (mg/L) (i	
Did well de-wat	volume (gal.) (#) CONTAINER	If yes, Time:	Temperature (C/F)	D.O. (mg/L) (i	
Did well de-wat	Volume (gal.)	If yes, Time:	Temperature (C/F) FORMATION LABORATOR	D.O. (mg/L) (i	
(2400 hr.)	Volume (gal.) (#) CONTAINER x voa vial	LABORATORY IN REFRIG. PRESERV. TYP YES HCL	Temperature (C/F) FORMATION LABORATORY LANCASTER	D.O. (mg/L) (i	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Site Address:	ChevronTexaco		1		
nie Address.	- 631 Oueen Ann	e North	Event Date: 10	1-10-2-03	(inclusiv
Nt	Seattle, WA		Sampler:	BMN	
City:	Seattle, WA		·	3,	
Well ID	VP-3	Date Monitored:	10/1/03	Well Condition: ok	
Well Diameter	2 in.		3/4"= 0.02	1"= 0.04 2"= 0.17 3"=	0.38
Total Depth	9,10 ft.	Volume Factor (\			5.80
Depth to Water					1
popul to trate.		F=	x3 (case volume) = E	Estimated Purge Volume:	
		- U - F-virmo	m t .	Time Started: Time Bailed:	(2400 hrs) (2400 hrs)
Purge Equipment:		Sampling Equipme	111.	Depth to Product:	
Disposable Bailer		Disposable Bailer Pressure Bailer		Depth to Water:	
Stainless Steel Bail	er	Discrete Bailer		Hydrocarbon Thickness:	т.
Stack Pump		Other:		Visual Confirmation/Descrip	otion:
Suction Pump		Officer.		Skimmer / Absorbant Sock	(circle one)
Grundfos	\			Amt Removed from Skimm	er: gai
Other:				Amt Removed from Well: Product Transferred to:	
			/	Product Transferred to:	
				\ 	
Start Time (pur	o).	Weather Condition	ns:		
		,	or:	Odor:	
Sample Time/		Sediment Description		X	
Purging Flow		1 yes, Time:			•
Did well de-wa	ater?	yes, time.			
Time	Volume	Conductivity	Temperature	D.O.	ORP (mV)
(2400 hr	,	pH (u mhos/cm)	(C/F)	/ (mg/L)	(1114)
(3.1.2.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
			<u> </u>		
	— <i> </i> ——				
	/				
	7	LABORATORY	INFORMATION		
SAMPLE	(#) CONTAINER	REFRIG. PRESERV.	YPE / LABORATO		5
SAMI CLYIC	x voa via	1101	LANCASTE		
-	x ambe	1 LC	LANCASTE	R TPH-Dx w/sg	
			Samole.	•	
COMMENTS	s: Insuff	icient water to	20mpic		
	·				
			Add/Replaced	l Plug: Size:	



WELL MONITORING/SAMPLING FIELD DATA SHEET

Site Address:					
Site Address:	631 Queen An	ne North	Event Date: lb∐		(inclusiv
City:	Seattle, WA		Sampler:	BWN	<u>.</u>
Well ID Well Diameter Total Depth	VP - 4 2 in. 14.69 ft.	Date Monitored: Volume Factor	3/4"= 0.02	. 0.01	= 0.38 = 5.80
Depth to Water		VF=	v3 (case volume) = F	stimated Purge Volume:	gal.
Purge Equipment: Disposable Bailer Stainless Steel Bail Stack Pump Suction Pump Grundfos Other:		Sampling Equipme Disposable Bailer Pressure Bailer Discrete Bailer Other:		Time Started:	(2400 hrs) (2400 hrs) (2400 hrs) (3.24 ft (3.24 ft (0.33 ft ption: (circle one) (er: gal
Start Time (pur	ue).	/ Weather Condition	ns:		
Sample Time/I Purging Flow F Did well de-wa Time (2400 hr.	Date: Rate: gpmX ter? Volume	/	lor: on:	<i>"</i>	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa	Date: Rate: gpmX ter? Volume	Sediment Description (yes, Time: PH Conductivity (umhos/cm)	lor:	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: Rate: gpmX ter? Volume	Sediment Description Yes, Time: Conductivity (umhos/cm) LABORATORY REFRIG. PRESERV. TO YES HCL	lor:	gal. D.O. (mg/L)	ORP (mV)



WELL MONITORING/SAMPLING FIELD DATA SHEET

lient/Facility #:	ChevronTex	kaco #21157	•		6765	 (inclusiv	
ite Address:		1 Queen Anne North			Event Date: 10 1-10-2-03		
	Seattle, WA		S	ampler:	BWN		
City:	Seattle, W.					V	
Vell ID	VP-5	Date	Monitored:	0/1/03	Well Condition:	<u>K</u>	
Vell Diameter		in.	Volume	3/4"= 0.02 1	- 0.04 - 0	3"= 0.38	
Total Depth	16.50	ft.	Factor (VF)	O, ,	= 1.02 6"= 1.50 1	2"= 5.80	
Depth to Water		ft.	12	·	I D Valumos	2 gal.	
·	3.69	xvF <u>'\'(</u>	_= <u>.162</u> x		mated Purge Volume:	(2400 hrs)	
		Sam	pling Equipment:		Time Started: Time Bailed:	(2400 hrs)	
Purge Equipment:	J		osable Bailer		Depth to Product:	ft	
Disposable Bailer		·	sure Bailer		Depth to Water:	/n	
Stainless Steel Bail	er		rete Bailer		Hydrocarbon Thickness:		
Stack Pump			er:	,	Visual Confirmation/Des		
Suction Pump Grundfos					Skimmer / Absorbant Sc	ock (circle one)	
					Amt Removed from Skill	nmer: gal I: gal	
Other:					Amt Removed from Wel Product Transferred to:	l: gai	
					Product Transferred to.		
	400		Oditions:	foggy			
Start Time (pur	ge): <u>830</u>	Weat	ner Conditions:	.001	Odor: V	∂	
Sample Time/	Date: <u>845</u>		Water Color:				
Purging Flow I	Rate: g	, p	ent Description:	Volume:	gal.		
Did well de-wa	iter? hø	If yes, Tim	ne:	Volume.	ga	•	
			Conductivity	Temperature	D.O.	ORP	
Time (2400 hr	Volume .) (gal.)	pН	(u mhos/cm)	(C/ /)	(mg/L)	(mV)	
(2400 111	(gai.)						
833		7.14	341	12.3			
836	2	7.09	337	12-2		·	
		LA	BORATORY INF		ANAL	VSES	
	(#) CONTAI	INER REFRIG.	PRESERV. TYPE		TPH-G/BTEX/MTBE	1020	
SAMPLE ID		oa vial YES	HCL	LANCASTER LANCASTER	TPH-Dx w/sg		
VP - 5		amber YES	HCL	LANCASTER	111120.00		
		amber YES		1			
VP -5		amber 123		 			
VP -5		amber 123				·	
VP -5		ambel 123					
VP -5	2 x	ambel TEG					
VP -5	2 x	ambel TES					



WELL MONITORING/SAMPLING FIELD DATA SHEET

	CHEVIORIEXAC	o #211577	Job Number: , _	386765	
Site Address:	631 Queen An	ne North	Event Date: 🕪	- 10-2-03	(inclusive
City:	Seattle, WA		Sampler:	BWN	
Well ID Well Diameter	VP - 6	Date Monitored:	10/1/03	Well Condition: 0k	
Total Depth	2 in. 14,72 ft.	Volume Factor (\	3/4"= 0.02 /F) 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water	12.9) ft.	VF =	_ x3 (case volume) = E	stimated Purge Volume:	jal.
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump		Sampling Equipment Disposable Bailer Pressure Bailer Discrete Bailer	nt:	Time Started: Time Bailed: Depth to Product: 2,12 Depth to Water: 2,9 Hydrocarbon Thickness: .76 Visual Confirmation/Description:	_(2400 hrs) _(2400 hrs) ft ft
Grundfos Other:		Other:		Skimmer / Absorbant Sock (circle of Amt Removed from Skimmer: Amt Removed from Well: Product Transferred to:	one) • gal
Start Time (purg	e):	Weather Condition	s:		
Sample Time/D		/ Water Cold		Odor:	nderio -
Purging Flow R Did well de-wat		Sediment Descriptio		gal.)	
Time (2400 hr.)	Volume (gal.)	pH Conductivity (u mhos/cm)	Temperature (C/F)	D.O. ORP (mV)	
	_/	LABORATORY IN	IFORMATION /		
SAMPLE ID	(#) CONTAINER	REFRIG. PRESERV. TYP	E LABORATORY	The same of the sa	
	x voa vial		LANCASTER	TPH-G/BTEX/MTBE	·
	x amber	YES HCL	LANGASTER	TPH-Dx w/sg	



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Site Address:	631 Queen Anno	#211577 e North	Job Number: Event Date:	191-10-2-03	(inclusiv
City:	Seattle, WA		Sampler:	BWN	Ale
Well ID Well Diameter	ΥΡ - 7 in.		/olume 3/4"= 0.02		3"= 0.38 12"= 5.80
Total Depth Depth to Water	17.42 ft. 10.98 ft.		-actor (VF) 4"= 0.66 .09 x3 (case volume)	5"= 1.02 6"= 1.50 = Estimated Purge Volume	7
	6.44xv	= _ 11/=	x3 (case volume)	Time Started:	(2400 hrs)
Purge Equipment: Disposable Bailer	<u> </u>	Sampling Ed	lailer J	Time Bailed:	(2400 hrs) ft f
Stainless Steel Bail Stack Pump Suction Pump	er	Pressure Bail Discrete Bail Other:	er	Hydrocarbon Thickn Visual Confirmation/	Description:
Grundfos Other:				Skimmer / Absorber Amt Removed from Amt Removed from Product Transferred	Skimmer gal Well:gal
			nditions: Fogg	V	
Start Time (pu Sample Time/			er Color: Llear	Odor	: yes
Purging Flow Did well de-wa		Sediment De		gal.	
Time (2400 h	Volume r.) (gal.)		uctivity Temperatur os/cm) (CJF)	D.O. (mg/L)	ORP (mV)
		701 -25	1 12.4		
903		6.86 35			-
903		6.85 6.83 6.81 34	7 12.3		
906		6.83 34 6.81 34	7 12.3		
901	3	6.83 34 6.81 34 ————————————————————————————————————	7 12.3 D 12.2 TORY INFORMATION ERV. TYPE LABORAT	OK1	VALYSES
906	3	6.83 34 6.81 34 LABORA REFRIG. PRES	7 12.3 D 12.2 TORY INFORMATION ERV. TYPE LABORAT HCL LANCAS	TER TPH-G/BTEX/MP	
901, 909	2	6.83 34 6.81 34 LABORA REFRIG. PRES	7 12.3 D 12.2 TORY INFORMATION ERV. TYPE LABORAT	TER TPH-G/BTEX/MP	
901, 909 	D (#) CONTAINER Z x voa vial Z x ambel	6.83 34 6.81 34 LABORA REFRIG. PRES	7 12.3 D 12.2 TORY INFORMATION ERV. TYPE LABORAT HCL LANCAS	TER TPH-G/BTEX/MPE TER TPH-Dx w/sg	
901, 909 SAMPLE II	2 3 D (#) CONTAINER 2 x voa via 2 x amber 1 500 mL N	6.83 34 6.81 34 LABORA REFRIG. PRES	7 12.3 D 12.2 TORY INFORMATION ERV. TYPE LABORAT HCL LANCAS	TER TPH-G/BTEX/MPE TER TPH-Dx w/sg	

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexa	co #2115		4-	386765	
Site Address:	631 Queen Ar	ne North	<u> </u>	Event Date: 10[[-10-2-03	(inclus
City:	Seattle, WA	<u></u>		Sampler:	BWN	
Well ID	VP - 8	Dat	e Monitored:	10/1/03	Well Condition: ok	
Well Diameter Total Depth	2 in. 16,61 ft.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water	13,49 ft.	xVF	= 15	3 (case volume) = Es	itimated Purge Volume: 1.5	gal.
Purge Equipment:		Sar	npling Equipment:	,	Time Started: Time Bailed:	(2400 hrs) (2400 hrs)
Disposable Bailer	$\sqrt{}$		posable Bailer	√	Depth to Product:	(2 100 1.10) ft
Stainless Steel Baile	г		ssure Bailer	-	Depth to Water:	f
Stack Pump Suction Pump			crete Bailer ner:		Hydrocarbon Thickness: Visual Confirmation/Description:	ft
Grundfos Other:					Skimmer / Absorbant Sock (circle Amt Removed from Skimmer:	gal
					Amt Removed from Well: Product Transferred to:	gal
Start Time (purg	e): 9 30	Wea	ther Conditions:	Fogg)		
Sample Time/D			Water Color:	00,	Odor:	·
Purging Flow R	ate: gpm.	Sedim	ent Description:			
Did well de-water	er? /\^ 0	If yes, Tin	ne:	Volume:	gal.	
Time (2400 hr.)	Volume (gal.)	pН	Conductivity (u mhos/cm)	Temperature (C/ P)	D.O. ORP (mg/L) (mV)	
935	1,5	7.14	326	12.6		
		LA	BORATORY INFO	ORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES	
VP - 8	3 x voa via		HCL	LANCASTER	TPH-G/BTEX/MTBE TPH-Dx w/sg	
NP -8	2 x ambe	r YES	HCL.	LANCASTER	IPH-DX W/Sg	
————		<u> </u>	1	L		
COMMENTS:					·	
COMMENTS:						



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexac	o #211577	7 J		86765	
Site Address: 631 Queen Anne North				Event Date: 10]-	10-2-03	(inclusiv
City:	Seattle, WA			Sampler:	BWN	
				10/1/02	Well Condition:	0E
Well ID	<u>VP - 9</u>	Date	Monitored:	10/1/03	Well Condition.	
Well Diameter	2 in.		Volume	0/-1 0.02	1 - 0.04	3"= 0.38 12"= 5.80
Total Depth	13,50 ft.		Factor (VF)	4"= 0.66	5"= 1.02 6"= 1.50	12 - 3.00
Depth to Water	11.72 ft.	W)	ર		timated Purge Volume:	∫ gal.
		VF	_= <u></u> \	(3 (case volume) = ES		(2400 hrs)
		Sami	pling Equipment:	1	Time Started:	(2400 hrs)
Purge Equipment:	J		osable Bailer	V	Depth to Product:	ft_
Disposable Bailer Stainless Steel Baile		•	sure Bailer		Depth to Water:	-/-''t
Stack Pump		Disci	rete Bailer		Hydrocarbon Thickness Visual Confirmation/D	
Suction Pump		Othe	r:	·		\
Grundfos					Skimmer / Absorbant Sci Amt Remoyed from Ski	mmer: gal
Other:	<u> </u>		•		Amt Removed from We	ll:gai
	•				Product Transferred to:	
O. 1 T). ach	 \Meath	ner Conditions:	foggl		
Start Time (purg		Weau	Water Color:		Odor:	h0
Sample Time/D		Sedime	ent Description:			
Purging Flow R		-	e:	Volume:	gal.	•
Did well de-wa	ter? NO	- 11 yes, 11111	·	<u>-</u>		ODD
Time	Volume	рН	Conductivity	Temperature	D.O. (mg/L)	ORP (mV)
(2400 hr.)	(gal.)	ριι	(u mhos/cm)	(CI)F)	(1119,22)	,
		- 0:1	221	12,4		
955		6.84	32	123		
	<u> </u>					
				- COMATION	_ 	
			BORATORY IN		ANAL	YSES
SAMPLE ID	(#) CONTAINER		HCL	LANCASTER	TPH-G/BTEX/MTBE	
VP - 9	3 x voa via		HCL	LANCASTER	TPH-Dx w/sg	
Marie Star	, Admin					
11						
						
	1		1/5			
		1				
COMMENTS	: Water	contains	(Fet)			
COMMENTS	: Water	contains	(P21)			



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexaco	#21157	7	Job Number:	386765	
Site Address: 631 Queen Anne North				Event Date:	10-1-03 - 10/2/03 (inclu	
City:	Seattle, WA			Sampler:	BMN	
Well ID Well Diameter	MW - 4	Date	Monitored:	3/4"= 0.02	Well Condition: 0 2 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	
Total Depth Depth to Water	17.3 ft. 12146 ft. 4.85 xv	₋ 'Π	Factor (V		Estimated Purge Volume: 2-5 gal.	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	<u> </u>	Disp Pres Disc	npling Equipmen posable Bailer ssure Bailer crete Bailer er:	t: <u>J</u>	Tillio Otalitoni	00 hrs) 100 hrs) ft ft
Grundfos Other:		Ou.			Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmen Amt Removed from Well: Product Transferred to:	ga gal
Start Time (purge		Weat	her Conditions			
Sample Time/Da	te: <u>815</u> /		Water Colo	r: <u>Cleat'</u>	Odor: Slight	
Purging Flow Ra Did well de-water			ent Descriptione:		gal.	•
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (u mhos/cm)	Temperature (C/P)	D.O. ORP (mg/L) (mV)	
803		6.87	345	12.5		
806	2.5	4.84	344	12.4		
		LA	BORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYP			
MW-4.	x voa vial	YES	HCL	LANCASTER		
MW H	1 500 m l 1.	YES V	Nb HCr	LANCASTER	Diss- Lead	
COMMENTS:						
Add/Repla	ced Lock:			Add/Replaced F	Plug: Size:	



Sir (175 - 1994 - 44-	ChevronTexaco	#2115 <i>[[</i>	Job Number:	386765	
Client/Facility #:	631 Queen Anne		Event Date:	10-1-03-10/010	3(inclus
Site Address:		1101111	Sampler:	BWN	·
City:	Seattle, WA				
A/all ID	mw - 6	Date Monitored:	10/1/03	Well Condition: 0	
Well ID Well Diameter	2 in.			1"= 0.04 2"= 0.17 3"=	0.38
	28,32 ft.	Volume Factor (1 = 0.04 = 5	5.80
Fotal Depth Depth to Water	23,07 ft.	T doto.			
Deptil to Water	xVF	=	x3 (case volume) =	Estimated Purge Volume:	
			_	Time Started:	(2400 hrs) (2400 hrs
Purge Equipment:		Sampling Equipme	ent:	Time Bailed: 23,0	
Disposable Bailer		Disposable Bailer		Depth to Product: 23.0	
Stainless Steel Baile	er	Pressure Bailer		Hydrocarbon Thickness:	, 03 ft
Stack Pump		Discrete Bailer	<u> </u>	Visual Confirmation/Descrip	tion:
Suction Pump		Other:		Skimmer / Absorbant Sock ((circle one)
Grundfos	· · · · · · · · · · · · · · · · · · ·			Amt Removed from Skimme	er: ga
Other:				Amt Removed from Well:	ga
		•		Product Transferred to:	
	_=				
Start Time (nur	ne).	Weather Conditio	ns:		
Start Time (pur			ns: lor:	Odori	
Sample Time/D	Date: /	Wafter Co	lor:	Odori	
Sample Time/D Purging Flow F	Date: / Rate: gpm.	Water Co Sediment Descripti	lor:	Odor:	
Sample Time/D	Date: / Rate: gpm.	Wafter Co	lor: on:	Odor: gal.	
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter?	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time:	lor: on: Volume: Temperature	Odor: 	
Sample Time/D Purging Flow F Did well de-wa	Oate: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity	lor: on: Volume: Temperature	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity (u mhos/cm)	lor:	Odor: gal. p.o.	ORP
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. ter? /	Water Co Sediment Descripti f yes, Time: Conductivity (u mhos/cm) LABORATORY	lor:	gal. D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa	Oate: / Rate: gpm. ter? Volume (gal.)	Water Co Sediment Descripti f yes, Time: Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. T	INFORMATION YPE LABORATO	Odor:	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.)	Water Co Sediment Descripti f yes, Time: pH	INFORMATION LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.)	Water Co Sediment Descripti f yes, Time: PH Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. T	INFORMATION YPE LABORATO	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial	Water Co Sediment Descripti f yes, Time: pH	INFORMATION LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial	Water Co Sediment Descripti f yes, Time: pH	INFORMATION LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial x amber	Water Co Sediment Descripti f yes, Time/ pH Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. T YES HCL YES HCL	INFORMATION VPE LABORATO LANCASTE LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial x amber	Water Co Sediment Descripti f yes, Time/ pH Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. T YES HCL YES HCL	INFORMATION VPE LABORATO LANCASTE LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial x amber	Water Co Sediment Descripti f yes, Time: pH	INFORMATION VPE LABORATO LANCASTE LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)
Sample Time/E Purging Flow F Did well de-wa Time (2400 hr.	Oate: / Rate: gpm. ter? Volume (gal.) (#) CONTAINER x voa vial x amber	Water Co Sediment Descripti f yes, Time/ pH Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. T YES HCL YES HCL	INFORMATION VPE LABORATO LANCASTE LANCASTE	Odor: gal. D.O. (mg/L) DRY ANALYSE R TPH-G/BTEX/MTBE	ORP (mV)

	Chevroniexac	o #211577	Job Number:	386765	
Site Address:	631 Queen An	ne North	Event Date:	10-1-03 - 10/2/03	_(inclusi
City:	Seattle, WA		Sampler:	BWN	
Well ID	MW - 9	Date Monitored:	10/1/03	Well Condition: 0K	·
Well Diameter	2 in.	-			7
Total Depth	27,70 ft.	Volume Factor (3/4"= 0.02 VF) 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water	21.26 ft.	T dotor (·
· •		VF17 = 1.09	_ x3 (case volume) = I	Estimated Purge Volume:gal	
Purge Equipment:	_	Sampling Equipme	nt:		2400 hrs) 2400 hrs)
Disposable Bailer	$\sqrt{1}$	Disposable Bailer	\checkmark	Depth to Product:	ft
Stainless Steel Baile	r	Pressure Bailer		Depth to Water:	f
Stack Pump		Discrete Bailer		Hydrocarbon Thickness:	ft
Suction Pump		Other:		Visual Confirmation/Description:	
Grundfos				Skimmer / Absorbant Sock (circle on	e)
Other:	<u> </u>			Amt Removed from Skimmer:	gal gal
				Amt Removed from Well: Product Transferred to:	gai
· .	-				
Start Time (purg	e): 830	Weather Condition	s food		
Sample Time/Da		Water Cold		Odor: No	
Purging Flow Ra		Sediment Descriptio			
Did well de-wate		If yes, Time:		gal.	_
Time	Volume (gal.)	pH Conductivity (u mhos/cm)	Temperature (C/ f)	D.O. ORP (mg/L) (mV)	
(2400 hr.)		,			
(2400 hr.)					
933		6.84 341	12.5		
933 936	1 2	4.80 337	12.4		
933					- - -
933 836	1 2	4.80 337	12.4		
933 936 834	1 2 3	4.80 337 4.77 335 LABORATORY IN	12.4 12.3		- - - - -
933 936 834 SAMPLE ID	(#) CONTAINER	LABORATORY IN REFRIG. PRESERV. TYPE	12.4 12.3 IFORMATION PE LABORATOR		- - - - -
933 936 834 SAMPLE ID MW - 9	(#) CONTAINER 3 x voa vial	LABORATORY IN REFRIG. PRESERV. TYP YES HCL	12.4 12.3 IFORMATION PE LABORATOR'	TPH-G/BTEX/M456	
933 936 839 SAMPLE ID MW - 9 MW - 9	(#) CONTAINER 3 x voa vial 2 x amber	LABORATORY IN REFRIG. PRESERV. TYP YES HCL YES HCL	IZ.4 12.3 IFORMATION PE LABORATOR' LANCASTER LANCASTER	TPH-G/BTEX/M=5C TPH-Dx w/sg	
933 836 834 SAMPLE ID MW - 9	(#) CONTAINER 3 x voa vial	LABORATORY IN REFRIG. PRESERV. TYP YES HCL	12.4 12.3 IFORMATION PE LABORATOR'	TPH-G/BTEX/M456	
933 936 839 SAMPLE ID MW - 9 MW - 9	(#) CONTAINER 3 x voa vial 2 x amber	LABORATORY IN REFRIG. PRESERV. TYP YES HCL YES HCL	IZ.4 12.3 IFORMATION PE LABORATOR' LANCASTER LANCASTER	TPH-G/BTEX/M=5C TPH-Dx w/sg	
933 936 839 SAMPLE ID MW - 9 MW - 9	(#) CONTAINER 3 x voa vial 2 x amber	LABORATORY IN REFRIG. PRESERV. TYP YES HCL YES HCL	IZ.4 12.3 IFORMATION PE LABORATOR' LANCASTER LANCASTER	TPH-G/BTEX/M=5C TPH-Dx w/sg	
933 836 839 SAMPLE ID MW - 9 MW - 9 MW - 9	(#) CONTAINER 3 x voa vial 2 x amber	LABORATORY IN REFRIG. PRESERV. TYP YES HCL YES HCL	IZ.4 12.3 IFORMATION PE LABORATOR' LANCASTER LANCASTER	TPH-G/BTEX/M=5C TPH-Dx w/sg	



GETTLER-RYAN INC.

lient/Facility #: Ch	evronTexaco	#211577	Jo	b Number:	386765		
	1 Queen Anno			vent Date:		10/2/03	(inclusi
	attle, WA		s	ampler:	BWN		•
ity: Se	attie, WA						
Vell ID	NW - 10	Date	Monitored:)[11103	Well Condition	1: <u>ok</u>	
Vell Diameter	2- in.			3/4"= 0.02	1"= 0.04 2"= 0.17	7 3"= 0.38	
	28,94 ft.		Volume Factor (VF)	3/4 = 0.02 4"= 0.66	5"= 1.02 6"= 1.50		
	13,68 ft.					75	
Deptil to Water	15.26 XVF	. 17	$=$ 2.5 \times	(case volume) = E	Estimated Purge Volum	ne: <u>/- 5</u> gal.	
	13.66				Time Started:	(2	400 hrs)
Purge Equipment:		Samp	oling Equipment:	1	Time Bailed:	(2	(400 hrs) ft
Disposable Bailer	\int	Dispo	sable Bailer	J	Depth to Product:_ Depth to Water:		t
Stainless Steel Bailer			sure Bailer		Hydrocarbon Thick	ness:	ft
Stack Pump		Discr	ete Bailer _		Visual Confirmation	n/Description:	
Suction Pump		Othe	r:		- 1	ant Sock circle one	
Grundfos					Amt Removed from	n Skimmet:	gal
Other:					Amt Removed fror	n Well:	gal
					Product Transferre	ed to:	
	4.5		O - Illiano	Foad/	,		
Start Time (purge):	900	Weath	er Conditions:	real	Odo	or: no	_
Sample Time/Date	: 930 /		Water Color:	Clear			
Purging Flow Rate	gpm.		nt Description:		gal.		-
Did well de-water?	<u>no</u>	If yes, Time	e:	Volume:	gai.		
		•	Conductivity	Temperature	D.O.	ORP	
Time	Volume	рН	(u mhos/cm)	(CJF)	(mg/L)	(mV)	
(2400 hr.)	(gal.)		,	-			_
908	2.5	774	340	12.6			
708	- 2.5 -	5-21 -	333	12.5			
716	-3 -	7.16	330	12.5			
922	1.5	1-16	300				
				DRIATION			
			BORATORY INFO		RY	NALYSES	
SAMPLE ID	(#) CONTAINER	REFRIG.	HCL	LANCASTE		ec .	
[MW - 10	3 x voa vial	YES YES	HCL	LANCASTE			
114	2 x amber	4	NP	V	Diss. Lead	<u>, </u>	
MW - 10	I I EAD and DI	- V					
mw 10	1500mh Pl.						•
	1500 ml Pl.						
	1500 mh Pl,						
mw lo	1500 mh Pl.						
	1500 ml Pl						
mw lo	1500 mh Pl,						

Client/Facility #:	ChevronTexa	co #2115	77 .	Job Number:	386765	
Site Address:	631 Queen An	ne North	·	Event Date:	10-1-03-10/203 (ir	nclus
City:	Seattle, WA			Sampler:	BWN	
Vell ID Vell Diameter	MW-11	Date	e Monitored:	10/1/03	Well Condition:	
otal Depth Depth to Water	2 in. 17.11 ft. 12.10 ft. 5.01	vf 117	Volume Factor (VF)		1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80 Estimated Purge Volume: 2,5 gal.	
urge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:		San Disp Pre	npling Equipment: posable Bailer ssure Bailer crete Bailer	•	Time Started: (2400 Time Bailed: (2400 Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description: Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: Amt Removed from Well: Product Transferred to:	
Start Time (purge Sample Time/Da Purging Flow Ra Did well de-wate	ate: 955 / gpm.	Sedime	her Conditions: Water Color: ent Description:	for all	Odor: Mo	en ander for en eller
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. ORP (mg/L) (mV)	
943 946	2.5	7.27	36) 35 <u>(</u>	12.4		
		LA	BORATORY INFO	ORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATOR]
MW-1	ユ x voa vial		HCL	LANCASTER		4
MW - 17 MW 11	2 x amber 1 500 mLPl.	YES	HCL	LANCASTER	Diss, Leal	1
						1
		-		1		
COMMENTS:						<u></u>

Client/Facility #: Cl	nevronTexaco	#21157	7	Job Number:	386765
· —	1 Queen Anne			Event Date:	10-1-03-10/2/03 (inclus
				Sampler:	BWN
ity: Se	eattle, WA				
Vell ID	NW - 12	Date	Monitored:	10/1/03	Well Condition: 0
		Date		101110.7	01.000
/ell Diameter	2 in.		Volume	3/4"= 0.02 F) 4"= 0.66	1"= 0.04
otal Depth	16.13 ft.		Factor (V	-) 4 - 0.00	3 - 1.02
epth to Water	12.12 ft.	17	_ ,68	v3 (case volume) =	Estimated Purge Volume:gal.
	4.0) ×VF			, XO (0030 Voicinio)	Time Started: (2400 hrs
urge Equipment:		Sam	pling Equipmen	t:	Time Bailed: (2400 hrs
isposable Bailer	✓	Disp	osable Bailer	<u> </u>	
tainless Steel Bailer		•	sure Bailer		Depth to Water:
Stack Pump		Disc	rete Bailer		Hydrocarbon Thickness:ft Visual Confirmation/Description:
action Pump		Othe	er:		_
Grundfos					Skimmer / Absorbant Sock (circle one)
Other:			.*		Amt Removed from Skimmer:98
					Amt Removed from Well: 9a Product Transferred to:
					Product Transferred to
Purging Flow Rate Did well de-water? Time (2400 hr.) 1008			Conductivity (u mhos/cm)		ODD
SAMPLE ID	(#) CONTAINER	LA REFRIG.	BORATORY IN	E LABORATO	
MW-12	3 x yoa vial	YES	HCL	LANCASTE	
MW-12	2 x amber	YES	HCL	LANCASTE	Diss. Lead
MW 12) 500 ml Pl.	4	NA	V	D100 - F - 101
COMMENTS:					
Add/Replac	od Look:			Add/Replaced	d Plug: Size:



Vell ID Vell Diameter Total Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump		Date /F	Monitored:	_ x3 (case volume) =	5"= 1.02 6"= Estimated Purge Vo	tion: 0 () () () () () () () () () ((inclusi
Well ID Well Diameter Fotal Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	MW - 13 2 in. 19.65 ft. 19.37 ft.	/FSamp Dispo	Volume Factor (\ = pling Equipment psable Bailer	3/4"= 0.02 4"= 0.66 x3 (case volume) =	Well Condit 1"= 0.04 2"= 5"= 1.02 6"= Estimated Purge Vo	0.17 3"= 0.38 1.50 12"= 5.80	
Well Diameter Fotal Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	2 in. 19.65 ft. 19.32 ft.	/FSamp Dispo	Volume Factor (\ = pling Equipment psable Bailer	/F) 4"= 0.66 _ x3 (case volume) =	1"= 0.04 2"= 5"= 1.02 6"= Estimated Purge Vo	0.17 3"= 0.38 1.50 12"= 5.80	
Well Diameter Fotal Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	2 in. 19.65 ft. 19.32 ft.	/FSamp Dispo	Volume Factor (\ = pling Equipment psable Bailer	/F) 4"= 0.66 _ x3 (case volume) =	1"= 0.04 2"= 5"= 1.02 6"= Estimated Purge Vo	0.17 3"= 0.38 1.50 12"= 5.80	
Total Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	19.65 ft. 19.37 ft.	Sam Dispo	Factor (\ = pling Equipment psable Bailer	/F) 4"= 0.66 _ x3 (case volume) =	5"= 1.02 6"= Estimated Purge Vo	1.50 12"= 5.80 blume: ga	
Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	19.32 ft. x\	Sam Dispo	Factor (\ = pling Equipment psable Bailer	/F) 4"= 0.66 _ x3 (case volume) =	5"= 1.02 6"= Estimated Purge Vo	1.50 12"= 5.80 blume: ga	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	x\	Sam Dispo	= pling Equipment posable Bailer	_ x3 (case volume) =	Time Started:_		
Disposable Bailer Stainless Steel Bailer Stack Pump		Sam Dispo	pling Equipmer osable Bailer		Time Started:_		
Disposable Bailer Stainless Steel Bailer Stack Pump		Dispo Press	osable Bailer	nt:			
Stainless Steel Bailer Stack Pump		Pres					(2400 hrs)
Stack Pump			ouro Bailor		Depth to Produ	ct:	ft
•		Discr	sui e ballei			•	
		14	ete Bailer		Hydrocarbon TI	hickness: ation/Description:	ft
Suction Pump		Othe	r:		- Visual Commine	audil/Description.	
Grundfos		. \				orbant Sock (circle or	
Other:			<i>_</i> .			from Skimmer: from Well:	
		`	X			erred to:	
		. /			L	/ -	
		/					
Start Time (purge		Weath	er Condition				
Sample Time/Da	te:/		Water Colò	7	O	dor:	_
Purging Flow Ra	te: gpm.	Sedime	nt Description				
Did well de-wate	r?	If yes, Time	ə:	Volume:	gal.		
T!		X	Camala antiquita	Temperature	D.O.	ORP	
Time (2400 hr.)	Volume (gal.)	- bH	Conductivity (u mhos/cm)	(C/F)	(mg/L)	(mV)	
	(9)		,	`			
	/				_/		_
		/-					
	/		/				
	- / -		\				
	/	LAB	ORATORY IN	FORMATION			
SAMPLE ID /	(#) CONTAINER	REFRIG.	PRESERV. TYP			ANALYSES	
	x voa vial	YES	HCI/	LANCASTER		MTBE	
- "	x amber	YES	HCL	LANCASTER	TPH-Dx w/sg		
	 			·			
·			·		·		
COMMENTS:	Insuf. 2	unter J	o sample	۷			
					<u> </u>		······································



Client/Facility #:	ChevronTexaco #2	11577	Job Number:	386765		_
Site Address:	631 Queen Anne N		Event Date:	10-1-03-10	703	_(inclusiv
	Seattle, WA		Sampler:	BWN		<u> </u>
City:	Jeattle, WA					
Well ID	MW-12	Date Monitored:	10/1/03	Well Condition:	0K	
Well Diameter	7 in.			1"= 0.04 2"= 0.17	3"= 0.38	7
Total Depth	24.45 ft.	Volume Factor (V	3/4"= 0.02 /F) 4"= 0.66	5"= 1.02 6"= 1.50	12"= 5.80	_
Depth to Water	VTA ft.				<u> </u>	
Deptil to Water	xVF	=	_ x3 (case volume) =	Estimated Purge Volume:	gal	
				Time Started:		2400 hrs)
Purge Equipment:		Sampling Equipmen	nt:	Time Bailed:		(2400 hrs) ft
Disposable Bailer		Disposable Bailer		Depth to Product:		",
Stainless Steel Baile		Pressure Bailer		Depth to Water:		
		Discrete Bailer		Hydrocarbon Thickne	SS:	"
Stack Pump		Other:		Visual Confirmation/D	escription.	
Suction Pump		J		Skimmer / Absorbant	Sock (circle on	e)
Grundfos				Amt Removed from S	Skimmer:	gai
Other:				Amt Removed from V	Vell:	gai
		/		Product Transferred t	:0:	
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Rate: gpm. lf ye	Water Colo	on:		ORP (mV)	
·		\		_ +		
		\	/			
	/	\	/			
			NEORMATION			
	/ / W CONTAINED DE	LABORATORY I		ORY ANA	ALYSES	
SAMPLE ID	/ (") 001111	YES HCL	LANCASTI	R TPH-G/BTEX MTBE		
	X 104 1.4	YES HCL	LANCASTI			
	x amber	TES TIOS				
			`\			
			7			
					· · · · · · · · · · · · · · · · · · ·	
COMMENTS	: Unrble to a	ccess car pa	rked over			
			Add/Replaced	d Plug:S	Size:	
Add/Ren	olaced Lock:	_	, (GG, (Op) 200	· · · · · · · · · · · · · · · · · · ·		

Site Address: 6	31 Queen Anı	NI		_	1 /21	
	or water Am	ne North	·	Event Date:	10-1-03-10/21	03(inclus
City: S	eattle, WA			Sampler:	13WN	***************************************
Vell ID	MW-15	Date	e Monitored:	17/1103	Well Condition: 0	K
Vell Diameter	2 in.					
otal Depth	24,80 ft.		Volume Factor (VF	3/4"= 0.02 -) 4"= 0.66		'= 0.38 "= 5.80
Depth to Water	9.72 ft.		L	<u> </u>		
		_{/F} , 17	= 2.5	x3 (case volume) = E	stimated Purge Volume:	3 gal.
	15.00				Time Started:	(2400 hrs)
urge Equipment:	•	Sar	npling Equipment	: /	Time Bailèd:	(2400 hrs)
Disposable Bailer		Dis	posable Bailer		Depth to Product:	ft
Stainless Steel Bailer		Pre	ssure Bailer		Depth to Water: Hydrocarbon Thickness:	r
Stack Pump			crete Bailer		Visual Confirmation/Descri	
Suction Pump		Oth	ier:			
Grundfos Othori					Skimmer / Absorbant Sock Amt Removed from Skimm	((circle one)
Other:			•		Amt Removed from Well:_	gal
					Product Transferred to:	
Time (2400 hr.) 1038 1046 1054	Volume (gal.)	7.31 7.26 7.20	Conductivity (u mhos/cm) 324 318 319	Temperature (CP)	gal. D.O. (mg/L)	ORP (mV)
SAMPLE ID	(#) CONTAINER	LA REFRIG.	BORATORY INF		/ ANALYSE	
MW-15	3 x voa vial	YES	HCL	LANCASTER		
MW-15	2 x amber	YES	HCL.	LANCASTER	TPH-Dx w/sg	
MW 15	1 500 mL 191.	Ψ	NP	1	Diss. Lead	
			, ·			
COMMENTS:						
<u> </u>	,					



GETTLER-RYAN INC.

Client/Facility #:	ChevronTexaco #211577	Job Number: 386765
Site Address:	631 Queen Anne North	Event Date: 10-1-03 - 10/3/03 (inc
City:	Seattle, WA	Sampler: 13WN
Well ID	MW - 16 Date Monitor	ed: 101103 Well Condition: ok
Well Diameter	2 in.	lume 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
Total Depth		ctor (VF) 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
Depth to Water		x3 (case volume) = Estimated Purge Volume:gal.
		Time Started: (2400 h
Purge Equipment:	Sampling Equ	ipment: Time Bailed: (2400 h
Disposable Bailer	Disposable Ba	Dth. to Makori
Stainless Steel Baile		Hydrocarbon Thickness:
Stack Pump	Discrete Baile	Visual Confirmation/Description:
Suction Pump	Other:	Skimmer / Absorbant Sock (circle one)
Grundfos		Amt Removed from Skimmer:
Other:		Amt Removed from Well:
		Product Transferred to:
Start Time (purg		
Sample Time/D	ate: / Wate	Color: Odor:
Purging Flow R	ate: gpm. Sediment Desc	ription:
Did well de-wat	\	Volume: gal.
Time (2400 hr.)	Volume pH Conduc	
	_ /	
	LABORATO	ORY INFORMATION
SAMPLE ID	(#) OOM 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V. TYPE LABORATORY ANALYSES LANCASTER TPH-G/BTEX/MTBE
-	/ X VOG VIGI	TOUR Develop
-	Z x amber YES F	ZL LANCASTER TPH-Dx w/sg
COMMENTS:	Vinable to access ca	r parked over
COMMENTS	Unable to access ca	r backed one;



Client/Facility #:	ChevronTexa	co #2115	77	Job Number:	386765		
Site Address:	631 Queen An	ne North	·	Event Date:	10-1-03-1	10/2/03	(inclusiv
City:	Seattle, WA			Sampler:	BWN	•	
Well ID	MW-17	Dat	e Monitored:	10/1/03	Well Condition	: <u>ok</u>	
Well Diameter	2 in.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17		
Total Depth Depth to Water	24.85 ft.		Factor (VI		5"= 1.02 6 " = 1.50		
Deptil to Water	10.30 ft.	(VF	_ = 2.5	x3 (case volume) = I	Estimated Purge Volume	e: <u>7.5 </u>	l.
Purge Equipment:	-	Sar	npling Equipmen		Time Started:		(2400 hrs) (2400 hrs)
Disposable Bailer	1		posable Bailer	" <i>J</i>	Time Bailed: Depth to Product:		(2400 ilis) ft
Stainless Steel Baile	.r		essure Bailer		Depth to Water:		f
Stack Pump			crete Bailer		Hydrocarbon Thickr		ft
Suction Pump		Oth	ner:		Visual Confirmation	/Description:	l
Grundfos					Skimmer / Absorpar	nt Sock (circle or	ne)
Other:					Amt Removed from	Skimmer:	gal
					Amt Removed from Product Transferred	Well: <u> </u>	gal
					1 Todact Transition		
Start Time (purg	e): 110	Moo	ther Conditions	: foggl			
Sample Time/D		vvea	Water Color		Odor	: no	
•		Cadina			- Cuoi	•	
Purging Flow R			ent Description		gal.		
Did well de-wate	er?	if yes, i in	ne:	_ Volume:	yai.		
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	
							
1117	_ 2.5	7.27	327	12.6	_	·	_
1724		7.72	32	12.4			_
113(7.5	7.18	318	12.3			_
							
		LA	BORATORY IN	ORMATION		Angelog and the second	· .
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE		Y AN	ALYSES	
MW - 17	3 x voa via	YES	HCL	LANCASTER		<u> </u>	
MW-17	2 x amber		HCL	LANCASTER			
MW 17	1 500ml Pl-	1	NA	¥	Dies. Load		
							
			· · · · · · · · · · · · · · · · · · ·				
COMMENTS	_	<u></u>					
COMMENTS:							
Add/Repla	aced Lock:	·	,	Add/Replaced F	Plug:S	Size:	



Client/Facility #: C	hevronTexaco	#21157	7	Job Number:	386765	· ·
	31 Queen Ann			Event Date:	10-1-03 -10/2	03 (inclus
	eattle, WA			Sampler:	BWN	
Well ID	RW - 2	Date	Monitored:	10/1/03	Well Condition: 0	
Well Diameter	g in.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17 3"=	0.38
Total Depth	21.40 ft.		Factor (VF			= 5.80
Depth to Water	15.05 ft.		<u> </u>			gal
	xV		_=	x3 (case volume) = E	Estimated Purge Volume:	gal.
B		Sam	pling Equipment	:	Time Started: Time Bailed:	(2400 hrs (2400 hrs
Purge Equipment:	.1		osable Bailer		Depth to Rroduct:	
Disposable Bailer	V		ssure Bailer		Depth to Water:	
Stainless Steel Bailer			rete Bailer		Hydrocarbon Thiskness:	ft
Stack Pump	·		er:		Visual Confirmation/Descrip	otion:
Suction Pump		Olin	۶۱۰ <u></u>		Skimmer / Absorbant Sock	(circle one)
Grundfos					Amt Removed from Skimm	er: ga
Other:					Amt Removed from Well:	ga
e e e e e e e e e e e e e e e e e e e					Product Transferred to:	
	W.F		her Conditions	: F099V		
Start Time (purge)	3	weat		——P.11	Odor: A	0
Sample Time/Dat			Water Color			
Purging Flow Rate	e: gpm.		ent Description			
Did well de-water	? <u>no</u>	If yes, Tim	ne:	_ Volume:	gal.	
			O d aki . iib.	Temperature	D.O.	ORP
Time	Volume	рН	Conductivity (u mhos/cm)	(C/F)	(mg/L)	(mV)
(2400 hr.)	(gal.)		(a finioci citt)	•		·
		2 22	340	12,4		
1130		7.22	3 10			
	-					

		1.0	BORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYP		RY ANALYSE	S
RW-Z	3 x voa vial	YES	HCL	LANCASTER	R TPH-G/BTEX/	
PW - 2	2 x amber	YES	HCL	LANCASTER		
RW Z	1 500 ml P1.	V	NP	V	Diss. Lead	
·		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00	da Faal	
COMMENTS:	Due to	inacco	100 loca	ation purge	2 gm	
				4.11/5	Plua: Size:_	
Add/Replac	ced Lock:			Add/Replaced	Plug: Size:_	

Client/Facility #:	Chevron rexaco #	7 2115//	Job Number: _	300/00		
Site Address:	631 Queen Anne	North	Event Date:	10-1-03 -1	10/2/03	_(inclusi
City:	Seattle, WA		Sampler:	BWN		_
Well ID	rw.3	Date Monitored:	10/11/03	Well Condition:		
Well Diameter	% in.	5 /-1	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38	1
Total Depth	ft.	Volume Factor (i i	5"= 1.02 6"= 1.50		
Depth to Water	ft.	I dotor (.
	xVF _	=	_ x3 (case volume) = E	stimated Purge Volume	: gal.	
Purge Equipment:		Campling Facines	: 	Time Started:		2400 hrs)
		Sampling Equipme	nt:	Time Bailed:		2400 hrs)
Disposable Bailer		Disposable Bailer		Depth to Product:		ft
Stainless Steel Bailer		Pressure Bailer	/	Depth to Water:		
Stack Pump		Discrete Bailer		Hydrocarbon Thickney		ft
Suction Pump		Other:		Visual Confirmation/	Jeschption:	
Grundfos				Skimmer / Absorban	t Sock (circle one)
Other:				Amt Removed from		
		/·.		Amt Removed from	Well:	gai
				Product Transferred	to:	[
		<u> </u>	-			
Start Time (purge	·	Weather Condition	s:			_
Sample Time/Da	ate:/	<u>∖</u> Water Cold	or:	/ Odor:		-
Purging Flow Ra	ate: gpm.	Sediment Descriptio	n:			_
Did well de-wate		es, Time:		gal.		
		· \				
Time	Volume / n	H Conductivity	Temperature 🔪	D.O.	ORP	
(2400 hr.)	(gal.) / P	(u/mhos/cm)	(C/F) /	(mg/L)	(mV)	
						_
						-
					<u> </u>	•
	/		/			•
						-
				\		•
			/			
SAMPLE ID	/ /// CONTAINED DE	LABORATORY IN		ANIA	LYSES	· ·
SAMPLE ID		FRIG. PRESERV. TYP	LANCASTER	TPH-G/BTEX/MTBE	LISES	
				TPH-Dx w/sg		
	x amber	YES HCL	LANCASTER	TEN-DA W/SY	<u> </u>	
COMMENTS:	Well is	non-existant	there is	s a sewei	grate in	areo
<u></u>					<u> </u>	
		· · · · · · · · · · · · · · · · · · ·				
A						
Add/Repla	ced Lock:		Add/Replaced Plu	ug:Si	ze:	



lient/Facility #:	ChevronTexaco	#211577	Job Number:	386765	
	31 Queen Anne		Event Date:	10-1-03-10/203	(inclusi
_	Seattle, WA		Sampler:	BWN	·
ncy.	ocatio, Tox			7.	
Vell ID	RW - 4	Date Monitored:	10/1/03	Well Condition:	
Vell Diameter	g in.	1. (c) to	3/4"= 0.02	1"= 0.04 2"= 0.17 3"= 0.38	
otal Depth	32.78 ft.	Volum- Factor		5"= 1.02 6"= 1.50 12"= 5.80	
Depth to Water	VTA ft.				
•	xVF	==	x3 (case volume) =	Estimated Purge Volume:	
•				Time Started:	(2400 hrs) (2400 hrs)
urge Equipment:		Sampling Equipm	ent:	Time Bailed: Depth to Product:	
Disposable Bailer		Disposable Bailer		Depth to Water:	f
Stainless Steel Bailer		Pressure Bailer		Hydrocarbon Thickness:	ft
Stack Pump		Discrete Bailer		Visual Confirmation/Description:	
Suction Pump		Other:		Skimmer / Absorbant Sock (circle	e one)
Grundfos				Amt Removed from Skimmer:	gal
Other:		· /	/	Amt Removed from Well:	gal
		/		Product Transferred to:	
				_=	
Stort Time (nume		Weather Condition	ons:	/	
Start Time (purge	:).	<i>j</i>			
0		Water Co	olor:	/ Odor:	
Sample Time/Da		Water Co		Odor:	
Purging Flow Ra	te: gpm.	Sediment Descript	ion:		· .
**	te: gpm.	/		gal.	
Purging Flow Ra Did well de-wate	te: gbm. r?	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript	Volume:	gal.	•
Purging Flow Ra Did well de-wate	te: gbm. r?	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity	Volume:	gal. D.O. ORF	•
Purging Flow Ra Did well de-wate	te: gpm. r? Volume	Sediment Descript If yes, Time. Conductivity (u mhos/cm)	Volume: Temperature (C/F)	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: ghm. r? Volume (gal.)	Sediment Descript If yes, Time. Conductivity (u mhos/cm)	Volume: Temperature (C/F) INFORMATION	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate	te: ghm. r? Volume (gal.)	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV.	Volume: Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: ghm. r? Volume (gal.)	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV.	Temperature (C/F) INFORMATION TYPE LABORATO	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: gtm. r? Volume (gal.) (#) CONTAINER x voa vial	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL	Volume: Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: gtm. r? Volume (gal.) (#) CONTAINER x voa vial	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL	Volume: Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: gtm. r? Volume (gal.) (#) CONTAINER x voa vial	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL	Volume: Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: gpm. r? Volume (gal.) (#) CONTAINER x voa vial x amber	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL YES HCL	Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV) ORY ANALYSES ER TPH-G/BTEX/MTBE ER TPH-Dx w/sg	•
Purging Flow Ra Did well de-wate Time (2400 hr.) SAMPLE ID	te: gpm. r? Volume (gal.) (#) CONTAINER x voa vial x amber	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL YES HCL	Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV) ORY ANALYSES ER TPH-G/BTEX/MTBE ER TPH-Dx w/sg	•
Purging Flow Ra Did well de-wate Time (2400 hr.)	te: gpm. r? Volume (gal.) (#) CONTAINER x voa vial x amber	Sediment Descript If yes, Time. Conductivity (u mhos/cm) LABORATORY REFRIG. PRESERV. YES HCL	Temperature (C/F) INFORMATION TYPE LABORATO LANCASTE	gal. D.O. ORF (mg/L) (mV) ORY ANALYSES ER TPH-G/BTEX/MTBE ER TPH-Dx w/sg	•

Client/Facility #:	ChevronTexac	o #2115	577	Job Number:	386765	
Site Address:	631 Queen An	ne North)	Event Date:	10-1-03 -10/210	3 (inclusive
City:	Seattle, WA			Sampler:	BWN	
						
Well ID	RW-5	Dat	e Monitored:	10/1/03	Well Condition:	
Well Diameter	g in.	•	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17 3"	= 0.38 Filled
Total Depth	14.25 ft.		Factor (, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	= 5.80 W
Depth to Water	13.29 ft.		<u> </u>			water
_	×	√F		_ x3 (case volume) =	Estimated Purge Volume:	
Purge Equipment:				4 .	Time Started:	
Disposable Bailer			mpling Equipme	nt;	Time Bailed:	
Stainless Steel Bailer			posable Bailer essure Bailer		_ Depth to Product: Depth to Water:	
Stack Pump	.		crete Bailer		Hydrocarbon Thickness:	ft I
Suction Pump			ner:		Visual Confirmation/Descri	
Grundfos					Skimmer / Absorbant Sock	(circle one)
Other:					Amt Removed from Skimp	ner: gal
					Amt Removed from Well:_	gai
				.	Product Transferred to:	
		· · · · · · · · ·				
Start Time (purge)		Wea	ther Condition			
Sample Time/Dat			Water Cold	or:	Ødor:	·
Purging Flow Rate	e: gpm.	Sedim	ent Descriptio	n:		· .
Did well de-water	?	If yes, Tin	ne: <u>/</u>	Volume:	gal/	
Time	Volume		Conductivity	Temperature	p.o.	ORP
(2400 hr.)	(gal.)	pH	(u mhos/cm)	(C/F)	(mg/L)	(mV)
	-	X				
			<u> </u>		_ /	
	-				/	<u> </u>
-		 _		·		<u> </u>
· · · · · · · · · · · · · · · · · · ·		/ 		· / -		
		LA	BORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYP		Y ANALYSE	S
-	x vojá vial	YES	HCL	LANCASTER		
-	x/amber	YES	HCL	LANCASTER	TPH-Dx w/sg	
	 					
	/					
COMMENTS:	Insuffic	cient w	pater to s	iample-Van	It well filled a	11th water
A 44 (D = -1				A-1-1/D-1-15	O:	
Add/Replace	ea Lock:			Add/Replaced F	Plug: Size:	

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 112(00) Sample #: 4139318-403

					-		1			Ai	nary	562 L	kequ es 1	.64				
				T	Matrix	. T						rvati	on Cod	8		Preservat		1
Facility #: SS#211577 G-R#386765					mau ix					#	#				++	11 110	Γ = Thiosι B = NaOH	
Site Address 631 Queen Anne North, SEA	TLE, WA						₽ E	1.									0 = Other	
Chevron PM: BH Lead	Consultant:	SAICLB	0456		e S	Oil	8021 S\$ 8260 Naphth			2003	OTC.	8	Ş			☐ J value reporti		n limite
Consultant/Office: G-R. Inc., 6747 Sierra C			9450	°	Potable NPDES	igi i	380			Q)	Extended Rng. Silica Gel Cleanup	¥eth	□quantification			☐ Must meet low possible for 82	80 compou	inds
Consultant Prj. Mgr. Deanna L. Harding (d	enna@gr	inc.com)				ပြီ	2			加岭	2		ag .			8021 MTBE Com	mation	-
Consultant Phone #:925-551-7555	Fax #:	925-551-78	99			0	88		88	20	<u> </u>	Diss.			1 1	Confirm MTBE	+ Naphtha	
Sampler: Bon Newton				2		Air Air	Ж	្រ	Oxygenates		≘		호		1	Confirm highe		5 0
	on SAR: _			ğ		Z Z	5	8	ð	五百	E E	ead Total	동물			☐ Confirm all hits ☐ Run oxy	s on highes	st hit
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Chevron Northwest Region Analysis Request/Chain of Custody



Acct # 11260 Sample

For Lancaster Laboratories use only Sample #: 4139378-403

scr#: 869911

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Facility#: SS#211577 G-R#386765		· · · · · · · · · · · · · · · · · · ·		T	Matr	x.				——————————————————————————————————————		rese	rvati	on	Cod	98	-		-	tive Code	
Site Address: 631 Queen Anne North, SEAT	· •			- L		2		_ =			H		\top						H = HCI N = HNO ₃ S = H ₂ SO ₄	T = Thios B = NaOl O = Other	1
Chevron PM: BH Lead Consultant/Office: G-R, Inc., 6747 Sierra Co Consultant Prj. Mgr.: Deanna L. Harding (de Consultant Phone #:925-551-7555	urt, Suite J, anna@grinc	Dublin, Ca. com)		68 -	Potable	-	of Containers	8021 🔲 8260 🔲 Naphth			1208 Hall	Extended Rng. Silica Gel Cleanup	ss. The Wethod		quantification				☐ J value report ☐ Must meet to possible for 8 8021 MTBE Cor	vest detecti 260 compo dirmation	ınds
Sampler: Ken Norton	on SAR:	Time		Composite	Water	OII 🗖 Air 🗆	l क ∣		8260 full scan	욡].	→ SHEL				NWTPH HCID				Confirm MTB Confirm high Confirm all high	st hit by 82 is by 8260 ys on highe	BO st hit
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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



GETTLER-RYAN INC

SAMPLE GROUP

The sample group for this submittal is 869977. Samples arrived at the laboratory on Wednesday, October 08, 2003. The PO# for this group is 99011184 and the release number is HUNTER.

	Lancaster Labs Number
Client Description	4139378
QA Water Sample	4139379
VP 1 Grab Water Sample	4139380
VP 1 Filtered Grab Water Sample	4139381
VP 5 Grab Water Sample	4139381
VP 5 Filtered Grab Water Sample	4139383
VP 7 Grab Water Sample	
VP 7 Filtered Grab Water Sample	4139384
VP 8 Grab Water Sample	4139385
VP 8 Filtered Grab Water Sample	4139386
VP 9 Grab Water Sample	4139387
MW 4 Grab Water Sample	4139388
MW 4 Filtered Grab Water Sample	4139389
MW 9 Grab Water Sample	4139390
MW 9 Filtered Grab Water Sample	4139391
MW 10 Grab Water Sample	4139392
MW 10 Filtered Grab Water Sample	4139393
MW 11 Grab Water Sample	4139394
	4139395
MW 11 Filtered Grab Water Sample	4139396
MW 12 Grab Water Sample	4139397
MW 12 Filtered Grab Water Sample	4139398
MW 15 Grab Water Sample	4139399
MW 15 Filtered Grab Water Sample	4139400
MW 17 Grab Water Sample	
MW 17 Filtered Grab Water Sample	4139401
RW 2 Grab Water Sample	4139402
RW 2 Filtered Grab Water Sample	4139403



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ELECTRONIC

Gettler Ryan

Attn: Michael Sharaeff

COPY TO 1 COPY TO

SAIC

Attn: Ms. Deanna Harding

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

Respectfully Submitted,

Susan M. Croyle Senior Chemist, Coordinator



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Lancaster Laboratories Sample No. WW 4139378

QA Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA

Collected:10/02/2003 00:00

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

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
08213	BTEX (8021)					
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes Site-specific MS/MSD samples w was performed to demonstrate p	71-43-2 108-88-3 100-41-4 1330-20-7 ere not submitt recision and ac	N.D. N.D. N.D. N.D. ed for the projec	0.5 0.5 0.5 1.5 t. A LCS/LCSD	ug/l ug/l ug/l ug/l	1 1 1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples w was performed to demonstrate p	n.a. were not submitt precision and ac	N.D. ed for the project curacy at a batch	50. ct. A LCS/LCSD	ug/l	1

State of Washington Lab Certification No. C259

		Laboratory	Chro	nicle Analysis		Dilution
No. 08213	Analysis Name BTEX (8021) TPH by NWTPH-Gx waters	Method SW-846 8021B TPH by NWTPH-Gx -	Trial# 1	Date and Time 10/13/2003 20:03 10/13/2003 20:03	Analyst Martha L Seidel Martha L Seidel	Factor 1 1
08274	GC VOA Water Prep	8015B Mod. SW-846 5030B	1	10/13/2003 20:03	Martha L Seidel	n.a.



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4139379

VP 1 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 08:15 by BJ

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

QANV1

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	40,000.	4,300.	ug/l	50
02096	Heavy Range Organics	n.a.	6,300.	5,300.	ug/l	50
	Accurate surrogate recoveries co	ould not be det	ermined due to t	he dilution		
	required for analysis of the sa					
		-				
08213	BTEX (8021)					
00776	Benzene	71-43-2	56.	1.0	ug/l	5
00777	Toluene	108-88-3	47.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	22.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	690.	3.0	ug/l	5
	Site-specific MS/MSD samples we	re not submitte	ed for the projec	t. A LCS/LCSD		*
	was performed to demonstrate pr	ecision and ac	curacy at a batch	level.		
00074	mply has NUMBLY Garage					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	7,600.	250.	ug/l	5
	Site-specific MS/MSD samples we was performed to demonstrate pr	re not submitt	ed for the projec	et. A LCS/LCSD		
	was berrotmed to demonstrate br	CCIPION GUG GC	caracy at a batter	· -		

State of Washington Lab Certification No. C259

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 20:54	Devin M Hetrick	50
08213	BTEX (8021)	SW-846 8021B	1	10/15/2003 18:51	Martha L Seidel	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/15/2003 18:51	Martha L Seidel	5
01146	GC VOA Water Prep	SW-846 5030B	1	10/15/2003 18:51	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	, 1	10/09/2003 10:00	Amanda W Herr	1



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Lancaster Laboratories Sample No. WW 4139380

VP 1 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 08:15 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

tot

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

		4		As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	31.2	1.2	ug/l	1

State of Washington Lab Certification No. C259 This sample was filtered in the lab for dissolved metals.

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 13:40 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139381

VP 5 Grab Water Sample Facility# 211577 Job# 386765

631 Queen Anne North; Seattle, WA

Collected:10/02/2003 08:45

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

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L4310

San Ramon CA 94583

QANV5

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,500.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	270.	250.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	330.	2.0	ug/l	10
00777	Toluene	108-88-3	76.	2.0	ug/l	10
00778	Ethylbenzene	100-41-4	1,000.	2.0	ug/l	10
00779	Total Xylenes	1330-20-7	2,200.	6.0	ug/l	10
	Site-specific MS/MSD samples we	re not submitt	ed for the project	ct. A LCS/LCSD		
	was performed to demonstrate pr	ecision and ac	curacy at a batch	h level.		
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we	n.a. ere not submitt	22,000.	500. ct. A LCS/LCSD	ug/l	10
	was performed to demonstrate pr	ecision and ac	curacy at a batc	n rever.		

State of Washington Lab Certification No. C259

CAT	Laboratory Chronicle Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97- 602 (modified)	1	10/16/2003 05:48	Devin M Hetrick	1
08213	w/SiGel BTEX (8021)	SW-846 8021B	1	10/16/2003 03:10	Martha L Seidel	10
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx -	1	10/16/2003 03:10	Martha L Seidel	10
01146	GC VOA Water Prep	8015B Mod. SW-846 5030B	1	10/16/2003 03:10	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	. 1	10/09/2003 10:00	Amanda W Herr	Τ :



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Lancaster Laboratories Sample No. WW 4139382

VP 5 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 08:45 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

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L4310

San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	2.4	1.2	ug/l	1

State of Washington Lab Certification No. C259 This sample was filtered in the lab for dissolved metals.

	Laboratory Chronicle					
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest tot	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 13:45 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139383

VP 7 Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 09:15 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

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San Ramon CA 94583

As Received

QANV7

CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	3,800.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	520.	250.	ug/l	1
02030	Due to the nature of the sample		luced aliquot was	used		
	for analysis. The reporting lim	mits were rais	sed accordingly.			
	for analysis. The reporting 22			•		
08213	BTEX (8021)					
00776	Benzene	71-43-2	10,000.	200.	ug/l	1000
00777	Toluene	108-88-3	4,500.	200.	ug/1	1000
00778	Ethylbenzene	100-41-4	2,000.	200.	ug/l	1000
00779	Total Xylenes	1330-20-7	10,000.	600.	ug/l	1000
	Site-specific MS/MSD samples we	re not submitt	ed for the proje	ect. A LCS/LCSD		
	was performed to demonstrate pr	ecision and a	ccuracy at a bate	ch level.		
		•				
08274	TPH by NWTPH-Gx waters					
	·		61,000.	50,000.	ug/l	1000
01648	TPH by NWTPH-Gx waters	n.a.	•		-27 -	
	Site-specific MS/MSD samples we	ere not submit	ted for the proje	ect. A Los/Loss		
	was performed to demonstrate pr	recision and a	ccuracy at a bat	CII TEAGT.		

State of Washington Lab Certification No. C259

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97- 602 (modified)	.1	10/16/2003 03:18	Devin M Hetrick	1
08213	w/SiGel BTEX (8021)	SW-846 8021B	1	10/16/2003 03:45	Martha L Seidel	1000
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/16/2003 03:45	Martha L Seidel	1000
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2003 03:45	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1.	10/09/2003 10:00	Amanda W Herr	1



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Lancaster Laboratories Sample No. WW 4139384

VP 7 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 09:15 by BN

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

tot

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

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San Ramon CA 94583

			As Received	Method		Dilution
CAT No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	1.8	1.2	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

		Laborato	Laboratory Chronicle			Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 13:50 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139385

VP 8 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 09:40 by E

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

8VVAQ

			As Received		
•		As Received	Method		Dilution
Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
TPH by NWTPH-Dx(water) w/SiGel					
Diesel Range Organics	n.a.	19,000.	780.	ug/l	10
Heavy Range Organics	n.a.	2,100.	980.	ug/l	10
BTEX (8021)		· .			
Benzene	71-43-2	3.4	0.5	ug/l	1
Toluene	108-88-3	1.2	0.5	ug/l	1
Ethylbenzene	100-41-4	5.8	0.5	ug/l	1
Total Xylenes	1330-20-7	11.	1.5	ug/l	. 1
TPH by NWTPH-Gx waters					
				ug/l	1
	TPH by NWTPH-Dx(water) w/SiGel Diesel Range Organics Heavy Range Organics BTEX (8021) Benzene Toluene Ethylbenzene Total Xylenes Site-specific MS/MSD samples were was performed to demonstrate pro TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters Site-specific MS/MSD samples were	TPH by NWTPH-Dx(water) w/SiGel Diesel Range Organics n.a. Heavy Range Organics n.a. BTEX (8021) Benzene 71-43-2 Toluene 108-88-3 Ethylbenzene 100-41-4 Total Xylenes 1330-20-7 Site-specific MS/MSD samples were not submitted was performed to demonstrate precision and accomply the submitted of the submitte	Analysis Name CAS Number Result TPH by NWTPH-Dx(water) w/SiGel Diesel Range Organics n.a. 19,000. Heavy Range Organics n.a. 2,100. BTEX (8021) Benzene 71-43-2 3.4 Toluene 108-88-3 1.2 Ethylbenzene 100-41-4 5.8 Total Xylenes 1330-20-7 11. Site-specific MS/MSD samples were not submitted for the project was performed to demonstrate precision and accuracy at a batch TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters n.a. 290. Site-specific MS/MSD samples were not submitted for the project	Analysis Name CAS Number Result Detection Limit TPH by NWTPH-Dx(water) w/SiGel Diesel Range Organics n.a. 19,000. 480. 780. 980. BTEX (8021) Benzene 71-43-2 3.4 0.5 Toluene 108-88-3 1.2 0.5 Ethylbenzene 100-41-4 5.8 0.5 Total Xylenes 1330-20-7 11. 1.5 Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	Analysis Name CAS Number Result Diesel Range Organics n.a. 19,000. 780. ug/1 Heavy Range Organics n.a. 2,100. BETEX (8021) Benzene 71-43-2 108-88-3 1.2 0.5 ug/1 Toluene 108-88-3 1.2 0.5 ug/1 Ethylbenzene 100-41-4 5.8 0.5 ug/1 Total Xylenes 1330-20-7 11. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters n.a. 290. 50. ug/1 Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD

State of Washington Lab Certification No. C259

G3.00		Laboratory	Chronicle Analysis			Dilution
CAT No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 07:52	Devin M Hetrick	10
08213	BTEX (8021)	SW-846 8021B	1	10/16/2003 01:52	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/16/2003 01:52	Martha L Seidel	1 .
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2003 01:52	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	, 1	10/09/2003 10:00	Amanda W Herr	1



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4139386 Lancaster Laboratories Sample No.

VP 8 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA by BN

Collected:10/02/2003 09:40

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

As Received Dilution As Received Method Factor Units Detection Result CAS Number No. Analysis Name Limit ug/l 2.4 7439-92-1 Lead (furnace method) 01055

State of Washington Lab Certification No. C259 This sample was filtered in the lab for dissolved metals.

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest tot	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 13:55 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139387

VP 9 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/02/2003 10:00

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03 Discard: 11/22/2003

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

Account Number: 11260

QANV9

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 02096	Diesel Range Organics Heavy Range Organics Due to the nature of the sample for analysis. The reporting lim			400. 500. sed	ug/l ug/l	1
08213	BTEX (8021)					
00776 00777 00778 00779	0777 Toluene 108-88-3 1.4 0.5 ug/l 1 0778 Ethylbenzene 100-41-4 2.3 0.5 ug/l 1					
08274 01648	TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters Site-specific MS/MSD samples were was performed to demonstrate pro-	n.a. re not submitte	1,600. ed for the project		ug/l	1

State of Washington Lab Certification No. C259

CAT	Laboratory Chronicle Analysis						
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602 (modified)	1	10/16/2003 04:08	Devin M Hetrick	1	
08213	BTEX (8021)	SW-846 8021B	1	10/16/2003 02:35	Martha L Seidel	1	
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/16/2003 02:35	Martha L Seidel	. 1	
01146	GC VOA Water Prep	SW-846 5030B	1	10/16/2003 02:35	Martha L Seidel	n.a.	

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



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Lancaster Laboratories Sample No. WW 4139387

VP 9 Grab Water Sample

Facility# 211577 Job# 386765

631 Queen Anne North; Seattle, WA

Collected:10/02/2003 10:00

by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

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San Ramon CA 94583

QANV9

07003 Extraction - DRO (Waters)

NWTPH-Dx, ECY 97-602, 6/97

10/09/2003 10:00

Amanda W Herr

1



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Lancaster Laboratories Sample No. WW 4139388

MW 4 Grab Water Sample

Facility# 211577 Job# 386765
631 Queen Anne North; Seattle, WA
Collected:10/01/2003 08:15 by B

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

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L4310

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QAN04

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095 02096	Diesel Range Organics	n.a.	3,800. N.D. #	400. 500.	ug/l ug/l	5 5
02096	Heavy Range Organics	n.a.	N.D. #	500.	ug/ 1	
08213	BTEX (8021)					
00776	Benzene	71-43-2	9,700.	10.	ug/l	50
00777	Toluene	108-88-3	11,000.	10.	ug/l	50
00778	Ethylbenzene	100-41-4	2,000.	10.	ug/l	50
00779	Total Xylenes	1330-20-7	12,000.	30.	ug/l	50
	Site-specific MS/MSD samples were was performed to demonstrate pro					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we				ug/l	50
•	was performed to demonstrate pr	ecision and ac	curacy at a batch	level.		

State of Washington Lab Certification No. C259

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 20:04	Devin M Hetrick	5
08213	BTEX (8021)	SW-846 8021B	1	10/14/2003 01:27	Martha L Seidel	50
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/14/2003 01:27	Martha L Seidel	50
01146	GC VOA Water Prep	SW-846 5030B	1	10/14/2003 01:27	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	, 1	10/09/2003 10:00	Amanda W Herr	1



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4139389 Lancaster Laboratories Sample No.

MW 4 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA by BN Collected:10/01/2003 08:15

Submitted: 10/08/2003 09:00

Discard: 11/22/2003

Reported: 10/22/2003 at 10:03

Account Number: 11260

ChevronTexaco

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L4310

San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	7.1	1.2	ug/l	1

State of Washington Lab Certification No. C259 This sample was filtered in the lab for dissolved metals.

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 01055	Analysis Name Lead (furnace method)	Method SW-846 7421	Trial#		Analyst Melissa-Ann S McAlpine	Factor 1
05704	WW/TL SW 846 GFAA Digest	SW-846 3020A	1	10/14/2003 08:48	Denise K Conners	1 .



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Lancaster Laboratories Sample No. WW 4139390

MW 9 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 08:45 by BN

Submitted: 10/08/2003 09:00

Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

As Received

L4310

San Ramon CA 94583

QAN09

				VP VECETAGG		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	•				
02095	Diesel Range Organics	n.a.	33,000.	4,000.	ug/l	50
02096	Heavy Range Organics	n.a.	N.D. #	5,000.	ug/l	50
08213	BTEX (8021)					
00776	Benzene	71-43-2	110.	4.0	ug/l	20
00777	Toluene	108-88-3	30.	4.0	ug/l	20
00778	Ethylbenzene	100-41-4	100.	4.0	ug/l	20
00779	Total Xylenes	1330-20-7	N.D. #	100.	ug/l	20
	Site-specific MS/MSD samples we	re not submitt	ed for the proje	ct. A LCS/LCSD		
	was performed to demonstrate pr	ecision and ac	curacy at a batc	h level.		
	Due to the presence of interfer	ents near thei	r retention time	, normal		
	reporting limits were not attai	ned for total	xylenes. The		* *	
	presence or concentration of th	ese compounds	cannot be determ	ined below the		
	reporting limits due to the pre	sence of these	interferents.			
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	3,500.	50.	ug/l	1
	Site-specific MS/MSD samples we	ere not submitt	ed for the proje	ct. A LCS/LCSD		
	was performed to demonstrate pr					
	-					

Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.

State of Washington Lab Certification No. C259

		Laboratory	Chro	nicle		
CAT		· · · · · · · · · · · · · · · · · · ·		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 20:29	Devin M Hetrick	50
08213	BTEX (8021)	SW-846 8021B	1	10/14/2003 04:29	Martha L Seidel	20
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/15/2003 14:43	Martha L Seidel	. 1

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



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4139390 Lancaster Laboratories Sample No. WW

MW 9 Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA by BN Collected:10/01/2003 08:45

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

QAN09 01146 GC VOA Water Prep 07003

Extraction - DRO (Waters)

SW-846 5030B NWTPH-Dx, ECY 97-602, 6/97

Account Number: 11260 ChevronTexaco

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San Ramon CA 94583

1

Martha L Seidel 10/15/2003 14:43 10/09/2003 10:00 Amanda W Herr

n.a. 1



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Lancaster Laboratories Sample No. 4139391

MW 9 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA

Collected:10/01/2003 08:45 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

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L4310

San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	3.9	1.2	ug/l	1

State of Washington Lab Certification No. C259 This sample was filtered in the lab for dissolved metals.

Laboratory Chronicle

CAT	Analysis							
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
01055 05704	Lead (furnace method) WW/TL SW 846 GFAA Digest	SW-846 7421 SW-846 3020A	1	10/15/2003 14:09 10/14/2003 08:48	Jessica L Boyd Denise K Conners	1		
	tot							



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Lancaster Laboratories Sample No. WW 4139392

MW 10 Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA

Collected:10/01/2003 09:30 by BN

Submitted: 10/08/2003 09:00

Discard: 11/22/2003

Reported: 10/22/2003 at 10:03

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Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

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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 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	N.D.	250. 250.	ug/l ug/l	1
08213	BTEX (8021)		•			
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes Site-specific MS/MSD samples we was performed to demonstrate pr Due to the presence of interfer reporting limits were not attai presence or concentration of th reporting limits due to the pre	ecision and actents near theined for total nese compounds	r retention time, xylenes. The cannot be determined	normal	ug/l ug/l ug/l ug/l	1 1 1 1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we was performed to demonstrate p	n.a. ere not submitt recision and ac	190. ted for the project couracy at a batch	50. ct. A LCS/LCSD h level.	ug/l	1

State of Washington Lab Certification No. C259

CAT	Analysis Name	Laboratory Method	Chro	nicle Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97-	1	10/16/2003 01:39	Devin M Hetrick	1
08213 08274	w/SiGel BTEX (8021) TPH by NWTPH-Gx waters	602(modified) SW-846 8021B TPH by NWTPH-Gx -	1 1	10/14/2003 05:06 10/15/2003 15:18	Martha L Seidel Martha L Seidel	1 1
01146 07003	GC VOA Water Prep Extraction - DRO (Waters)	8015B Mod. SW-846 5030B NWTPH-Dx, ECY 97-602, 6/97	1	10/14/2003 05:06 10/09/2003 10:00	Martha L Seidel Amanda W Herr	n.a. 1



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Lancaster Laboratories Sample No. WW 4139392

MW 10 Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 09:30 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:03

Discard: 11/22/2003

QAN10

Account Number: 11260

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Lancaster Laboratories Sample No. WW 4139393

MW 10 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA

Collected:10/01/2003 09:30 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

tot

Account Number: 11260

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As Received Dilution As Received Method CAT Factor Units Detection Result CAS Number Analysis Name No. Limit ug/l 1.2 N.D. 7439-92-1 Lead (furnace method) 01055

		Laborator	y Chro	NiCLE Analysis		Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	_	Date and Time 10/15/2003 14:14 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139394

MW 11 Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 09:55 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Discard. 11/22/200

Account Number: 11260

ChevronTexaco

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L4310

San Ramon CA 94583

QAN11

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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
08213	BTEX (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
	Site-specific MS/MSD samples we was performed to demonstrate pr					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we was performed to demonstrate pr				ug/l	1

- 1 .	~1 '7 .
Laboratory	Chronicle

CAT			0112.0	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 02:29	Devin M Hetrick	1
08213	BTEX (8021)	SW-846 8021B	1	10/14/2003 05:42	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/15/2003 15:53	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/14/2003 05:42	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	1	10/09/2003 10:00	Amanda W Herr	1



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Lancaster Laboratories Sample No. WW 4139395

MW 11 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 09:55 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

tot

Account Number: 11260

ChevronTexaco 6001 Bollinger Canyon Road L4310

San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	N.D.	1.2	ug/l	1

		Laborator	ry Chro	nicle Analysis		Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	Trial # 1 1	Date and Time 10/15/2003 14:19 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139396

MW 12 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 10:20 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

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\sim	7-3		_	~

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel		•			
02095	Diesel Range Organics	n.a.	470.	250.	ug/l	i
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
	Due to the nature of the sample	matrix, a red	duced aliquot was	used		• 1
	for analysis. The reporting li					
08213	BTEX (8021)					
00776	Benzene	71-43-2	1.2	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
	Site-specific MS/MSD samples we	ere not submit	ted for the proje	ect. A LCS/LCSD		
	was performed to demonstrate pr	ecision and a	ccuracy at a bato	ch level.	•	
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	69.	50.	ug/l	1
	Site-specific MS/MSD samples we	ere not submit	ted for the proje	ect. A LCS/LCSD		
	was performed to demonstrate pr	recision and a	ccuracy at a bato	ch level.		

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/16/2003 02:54	Devin M Hetrick	1
08213	BTEX (8021)	SW-846 8021B	1	10/14/2003 06:24	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/15/2003 16:31	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/14/2003 06:24	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	10/09/2003 10:00	Amanda W Herr	1 .



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4139397 Lancaster Laboratories Sample No.

MW 12 Filtered Grab Water Sample Job# 386765 Facility# 211577 631 Queen Anne North; Seattle, WA Collected:10/01/2003 10:20

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

tot

Account Number: 11260

ChevronTexaco 6001 Bollinger Canyon Road L4310

San Ramon CA 94583

As Received Dilution Method As Received CAT Factor Units Detection Result CAS Number No. Analysis Name Limit ug/l 1.2 N.D. 7439-92-1 Lead (furnace method)

		Laborator	cy Chro	nicle Analysis		Dilution
CAT No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 14:23 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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4139398 Lancaster Laboratories Sample No.

MW 15 Grab Water Sample

Job# 386765 Facility# 211577 631 Queen Anne North; Seattle, WA

Collected:10/01/2003 11:00

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

QAN15

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 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	410. N.D.	250. 250.	ug/l ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	1,700.	2.0	ug/l	10
00777	Toluene	108-88-3	60.	2.0	ug/l	10
00778	Ethylbenzene	100-41-4	48.	2.0	ug/l	10
00779	Total Xylenes	1330-20-7	110.	6.0	ug/l	10
	Site-specific MS/MSD samples were was performed to demonstrate pre-	re not submittection and ac	ed for the projec curacy at a batch	t. A LCS/LCSD		
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we was performed to demonstrate pr	n.a. re not submitt ecision and ac	810. ed for the projec curacy at a batch	500. ct. A LCS/LCSD	ug/l	10

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97- 602 (modified)	1	10/14/2003 02:07	Devin M Hetrick	1
08213	w/SiGel BTEX (8021)	SW-846 8021B	1	10/14/2003 07:02	Martha L Seidel	10
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx -	1	10/15/2003 17:06	Martha L Seidel	10
01146	GC VOA Water Prep	8015B Mod. SW-846 5030B	1	10/14/2003 07:02	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602	, 1	10/09/2003 10:00	Amanda W Herr	1



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Lancaster Laboratories Sample No. WW 4139399

MW 15 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 11:00 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco 6001 Bollinger Canyon Road

An Deceived

L4310

San Ramon CA 94583

CAT			As Received	Method	·	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01055	Lead (furnace method)	7439-92-1	N.D.	1.2	ug/l	1

a		Laboratory	Chro	NICLE Analysis		Dilution
No. 01055 05704	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest tot	Method SW-846 7421 SW-846 3020A	Trial# 1 1	Date and Time 10/15/2003 13:10 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Lancaster Laboratories Sample No. WW 4139400

MW 17 Grab Water Sample Facility# 211577 Job# 386765

631 Queen Anne North; Seattle, WA Collected:10/01/2003 11:40 by E

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

IANI	

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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
08213	BTEX (8021)					
00776	Benzene	71-43-2	420.	1.0	ug/l	5
00777	Toluene	108-88-3	69.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	38.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	130.	3.0	ug/l	5
	Site-specific MS/MSD samples wer	re not submitte	ed for the projec	t. A LCS/LCSD		
	was performed to demonstrate pre					
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	1,100.	250.	ug/l	5
	Site-specific MS/MSD samples we	· ·				
	was performed to demonstrate pro	ecision and acc	curacy at a patch	Tever.		. *

Laboratory	Chronicle
------------	-----------

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97- 602(modified)	1	10/14/2003 02:32	Devin M Hetrick	1
08213	BTEX (8021)	SW-846 8021B	1	10/14/2003 07:38	Martha L Seidel	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	10/15/2003 17:41	Martha L Seidel	5 .
01146	GC VOA Water Prep	SW-846 5030B	1	10/14/2003 07:38	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	10/09/2003 10:00	Amanda W Herr	1



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Lancaster Laboratories Sample No. WW 4139401

MW 17 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 11:40 by BN

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco 6001 Bollinger Canyon Road L4310

San Ramon CA 94583

As Received Dilution Method As Received CAT Factor Units Detection Result CAS Number Analysis Name No. Limit ug/l N.D. 7439-92-1 Lead (furnace method) 01055

		Laboratory Chronicle Analysis				
CAT No. 01055	Analysis Name Lead (furnace method)	Method SW-846 7421	Trial# 1	Date and Time 10/16/2003 02:40	Analyst Melissa-Ann S McAlpine	Factor 1
05704	WW/TL SW 846 GFAA Digest	SW-846 3020A	1	10/14/2003 08:48	Denise K Conners	1 .



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Lancaster Laboratories Sample No. WW 4139402

RW 2 Grab Water Sample

Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA

Collected: 10/01/2003 11:35 by Bi

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

QANR2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,400.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	75.	0.5	ug/l	1
00777	Toluene	108-88-3	7.3	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	29.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	33.	1.5	ug/l	1
	Site-specific MS/MSD samples were was performed to demonstrate pro	re not submitte ecision and ac	ed for the projec curacy at a batch	t. A LCS/LCSD level.		
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Site-specific MS/MSD samples we was performed to demonstrate pr	n.a. re not submitt ecision and ac	2,300. ed for the projec curacy at a batch	50. et. A LCS/LCSD	ug/l	1

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97- 602 (modified)	1	10/14/2003 02:57	Devin M Hetrick	1
08213	w/SiGel BTEX (8021)	SW-846 8021B	1	10/15/2003 18:16	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx -	1	10/15/2003 18:16	Martha L Seidel	1
01146	GC VOA Water Prep	8015B Mod. SW-846 5030B	1	10/15/2003 18:16	Martha L Seidel	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	. 1	10/09/2003 10:00	Amanda W Herr	1 :



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Lancaster Laboratories Sample No. WW 4139403

RW 2 Filtered Grab Water Sample Facility# 211577 Job# 386765 631 Queen Anne North; Seattle, WA Collected:10/01/2003 11:35 by

Submitted: 10/08/2003 09:00 Reported: 10/22/2003 at 10:04

Discard: 11/22/2003

tot

Account Number: 11260

ChevronTexaco 6001 Bollinger Canyon Road

As Received

L4310

San Ramon CA 94583

				Method		Dilution	
CAT		CAS Number	As Received Result	Detection	Units	Factor	
No.	Analysis Name			Limit 1.2	ug/l	1	
01055	Lead (furnace method)	7439-92-1	4.9	1.2	3/		

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 01055	Analysis Name Lead (furnace method) WW/TL SW 846 GFAA Digest	Method SW-846 7421 SW-846 3020A	_	Date and Time 10/15/2003 14:33 10/14/2003 08:48	Analyst Jessica L Boyd Denise K Conners	Factor 1 1



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Quality Control Summary

Client Name: ChevronTexaco

Group Number: 869977

Reported: 10/22/03 at 10:04 AM

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 032810037A	Sample num 4139388,41	ber(s): 4	139379,413	9381,4139	383,41393	85,4139387-		
Diesel Range Organics Heavy Range Organics	N.D. N.D.	250. 250.	ug/l ug/l	90		46-112		
Batch number: 032810038A	Sample num	mber(s): 4	139398,413	39400,4139	402			
Diesel Range Organics Heavy Range Organics	N.D. N.D.	250. 250.	ug/l ug/l	89	83	46-112	7	20
Batch number: 03286A53A	Sample nur 4139378,43	mber(s): L39388,413	9390,41393	392,413939	94,4139396	,4139398,41394	00	
Benzene	N.D.	. 5	ug/1	90	88	75-134	2	30
Toluene	N.D.	.5	ug/l	105	104	82-119	1	30
Ethylbenzene	N.D.	.5	ug/l	104	104	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	107	107	82-120	0	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	116	112	70-130	4	30
Batch number: 032875704002	Sample nu	mber(s):						
	4139380,4	139382,413	9384,4139	386,413938	39,4139391	,4139393,41393	95,4139	397,413939
Lead (furnace method)	9,4139401 N.D.	0.0012	mg/l	98		80-120		
Batch number: 03288B56A	Sample nu 4139379,4 8,4139400	139381,413	9383,4139	385,413938	37,4139390	,4139392,41393	394,4139	396,413939
Benzene	N.D.	.5	uq/l	100	103	75-134	3	30
Toluene	N.D.	.5	ug/l	99	101	82-119	1	3.0
Ethylbenzene	N.D.	.5	ug/l	97	100	81-119	3	30
Total Xylenes	N.D.	1.5	ug/l	99	102	82-120	2	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	89	90	70-130	. 1	30
1			· _ · .	•				

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	<u>Max</u>
Batch number: 032810037A	Sample 413938	number 8,41393	(s): 413937 90,4139392,	79,41393 4139394	381,413 4,41393	9383,41393 96	85,4139387-		
Diesel Range Organics Heavy Range Organics						N.D.	N.D. N.D.	5 (1) 9 (1)	20 20
Batch number: 032875704002	413938		82,4139384,	413938	6,41393	89,4139391	,4139393,41	39395,413939	7,413939
Lead (furnace method)	9,4139 98	401,413 102	9403 80-120	4	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

*- Outside of specification

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



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Quality Control Summary

Client Name: ChevronTexaco

Group Number: 869977

Reported: 10/22/03 at 10:04 AM

Surrogate Quality Control

		Surrogate	Quartey C	CITCLOT	
Batch number	er: 032810037A				
	Orthoterphenyl				
4120250	264+				
4139379	364*				
4139381	100				
4139383	91				
4139385	141				
4139387	104				*
4139388	114				
4139390	. 130				
4139392	98		4		•
4139394	102				
4139396	85				
Blank	104				
LCS	125				
Limits:	50-150				
Analysis N	Name: TPH by NWTPH-Dx(wate	r) w/SiGel			
Batch numb	per: 032810038A				
	Orthoterphenyl				
4139398	101				
4139396	94	•			
	99				
4139402	104				
Blank	104				
LCS	111				
LCSD	111				
Limits:	50-150				
Analysis	Name: TPH by NWTPH-Gx wate	ers			
Batch num	ber: 03286A53A				
	Trifluorotoluene-P	Trifluorotoluene-F			
4139378	106	109			
4139388	108	108			
4139390	105				
4139392	91				
4139394	99				
4139396	88				
4139398	98				
4139400	99				
Blank	104	108			
LCS	106	108			
LCSD	104	106			
Timits:	66-136	57-146			
Limits:	66-136	57-146			
Analysis	Name: TPH by NWTPH-Gx wat	ers			
Batch nur	mber: 03288B56A				
	Trifluorotoluene-P	Trifluorotoluene-F			
4139379	107	101			•
	107	94			
4139381	dor-	91		•	
4139383	100	95			
4139385	101	110		* *	
4139387	133	195*			
4139390		130"			

*- 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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Quality Control Summary

Client Name: ChevronTexaco Reported: 10/22/03 at 10:04 AM			Group Number: 869977				
opozooa.	a	10.01 111	Surrogate	Quality	Control		
4139392		96					
4139394		96					
4139396		95					
4139398		96					
4139400		95					
4139402	108	99					
Blank	102	93				· · · · · · · · · · · · · · · · · · ·	
LCS	99	92				•	
LCSD	101	90					
Limits:	66-136	57	-146				

*- Outside of specification

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

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



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

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

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

- less than The number following the sign is the <u>limit of quantitation</u>, 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:

O	rga	an	ic	Qua	lifiers
---	-----	----	----	-----	---------

	Organic Qualifiers		
A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
N P U X,Y,Z	Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25% Compound was not detected Defined in case narrative	υ * +	Compound was not detected 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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