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Alameda County
Environmental Health

Aaron Costa Project Manager Marketing Business Unit Chevron Environmental Management Company 6111 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 543-2961 Fax (925) 543-2324 acosta@chevron.com

February 10, 2009

Mr. Jeff Carson Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, California 94580

Subject: Former Chevron Service Station No. 9-0260

21995 Foothill Boulevard

Hayward, CA Permit No. 007-03

Dear Mr. Carson:

During the current reporting period, the groundwater treatment and extraction system at the site referenced above operated in compliance with the conditions specified in the Oro Loma Sanitary District Wastewater Discharge Permit No. 007-03.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Sincerely,

Aaron Costa Project Manager



5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700

Telephone: (510) 420-0700 Fax: (510) 420-9170

http://www.craworld.com

February 10, 2009

Reference No. 311915

Mr. Jeff Carson Oro Loma Sanitary District 2600 Grant Avenue San Lorenzo, California 94580

Re: Monthly Discharge Report – January 2009 Former Chevron Service Station #9-0260 21995 Foothill Boulevard Hayward, California Permit No. 007-03

Dear Mr. Carson:

Conestoga-Rovers & Associates (CRA) prepared this document on behalf of Chevron Environmental Management Company (Chevron). This report was prepared in accordance with the requirements of the wastewater discharge permit. During the current reporting period, the remediation system at the subject site operated in compliance with the conditions specified in the wastewater discharge permit.

SELF-MONITORING REPORT - JANUARY 2009

REPORTING PERIOD ACTIVITIES

- CRA conducted routine operation and maintenance on January 6, January 9, January 10, January 15, January 21, and January 29, 2009.
- CRA conducted monthly compliance sampling on January 6 and January 21, 2009.
- CRA prepared this document, which includes tabulated operational and sample analytical data (Tables 1, 2, and 3). Laboratory analytical reports are included as Attachment A.

Equal Employment Opportunity Employer



February 10, 2009 Reference No. 311915

REPORTING PERIOD DATA SUMMARY (12/30/08 TO 1/29/09)

Compliance Sampling FrequencyMonthlyInitial Totalizer Reading696,221 gallonsFinal Totalizer Reading764,570 gallonsDischarged Volume68,349 gallons

Average Discharge Flow Rate1.58 gallons per minuteMaximum Discharge Flow Rate1.86 gallons per minute

Discharge Violations or Exceedances None

If you have any questions regarding the contents of this document, please call Jeff Schrupp at (510) 420-3362 or Casey Sanders at (916)-751-4118.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Casey Sandars

CS/doh/7

Enc.

Table 1 Influent and Effluent Fuel Concentrations

Table 2 System Operational DataTable 3 Effluent Compliance Results

Attachment A Laboratory Analytical Reports

cc: Mr. Aaron Costa, Chevron Environmental Management Company

TABLES

Table 1: Groundwater Extraction and Treatment System

Influent and Effluent Fuel Concentrations Former Chevron Station # 9-0260 21195 Foothill Boulevard, Hayward, California

			In	fluent					M	idfluent 1					Mi	dfluent 2				Effluent					
Sample	TPHg	Benzene ²	Toluene	Ethylbenzene	Xylenes	MtBE ⁴	TPHg	Benzene ²	Toluene	Ethylbenzene	Xylenes	MtBE ⁴	TPHg	Benzene ²	Toluene	Ethylbenzene	Xylenes	MtBE ⁴	TPHg	Benzene ²	Toluene	Ethylbenzene	Xylenes	MtBE ⁴	pH^3
Date	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	
(mm/dd/yy)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	
06/25/07	34,000	2,000	6,400	1,300	6,100	92	NA	NA	NA	NA	NA	NA							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.17
07/17/07	42,000	1,700	1,700	1,400	6,400	57	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.1
07/26/07	57,000	1,800	7,200	1,600	7,000	51	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA
08/17/07	65,000	2,800	10,000	1,500	7,000	74	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.2
08/22/07	44,000	2,100	7,900	1,500	7,500	56	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3
08/29/07	43,000	2,000	7,200	1,400	6,600	53	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.89
09/26/07	42,000	1,800	6,400	1,400	6,800	33	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.5
10/04/07	34,000	1,500	5,900	800	6,000	40	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.92
10/08/07	45,000	2,400	8,500	920	6,400	45	150	4.1	23	3	25	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.36
10/19/07	42,000	2,300	8,100	950	6,000	38	< 50	1.2	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3
10/25/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							NS	NS	NS	NS	NS	NS	7.3
12/05/07	46,000	2,400	7,500	920	4,800	42	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS
12/06/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							NS	NS	NS	NS	NS	NS	7.5
12/18/07	31,000	1,800	5,100	900	4,400	37	< 50	0.9	3.3	0.6	2.6	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8
01/03/08	41,000	2,400	8,200	1,200	6,800	35	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.03
01/18/08	36,000	1,000	5,100	700	5,300	35	< 50	< 0.5	< 0.5	< 0.5	< 1.5	0.5							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8
02/07/08	65,000	2,400	9,500	1,000	7,200	21	< 720	< 29.0	110	3.9	95	< 2.0							< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.65
02/14/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							NS	NS	NS	NS	NS	NS	6.72
03/05/08	40,000	2,100	8,500	1,200	6,700	28	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5	0.7	< 0.5	< 1.5	< 0.5	8.3
03/13/08	37,000	1,700	7,200	820	5,700	37	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5			Carbon vess	sel added 07/22/08			120	2.2	17	1.2	23	< 0.5	NS
8/1/20085	41,000	1,500	7,400	990	4,300	36	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.25
08/08/08	40,000	1,900	6,900	990	5,400	35	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.01
09/03/08	31,000	970	4,900	800	4,600	33	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.41
09/17/08	32,000	1,300	7,300	710	5,400	22	< 50	< 0.5	< 0.5	< 0.5	< 1.5	0.80	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.47
10/01/08	26,000	980	5,400	350	4,200	28	< 50	< 0.5	< 0.5	< 0.5	< 1.5	0.80	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.73
10/16/08	27,000	1,100	6,600	750	4,600	34	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS
11/04/08	25,000	670	4,700	320	3,800	24	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.42
11/21/08	87,000	2,700	18,000	1,100	11,000	30	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.69
12/03/08	33,000	710	4,400	480	5,500	26	< 50	< 0.5	< 0.5	< 0.5	< 1.5	0.8	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.32
12/18/08	39,000	730	4,500	680	6,200	24	82	< 0.5	< 0.5	< 0.5	< 1.5	2	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.70
01/06/09	21,000	690	4,300	460	3,600	22	79	< 0.5	< 0.5	< 0.5	< 1.5	2	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	8.65
01/21/09	17,000	640	3,300	360	2,800	25	< 50	< 0.5	< 0.5	< 0.5	< 1.5	3	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS
Regulatory Limits (ug/L):																			15,000	ND	ND	ND	ND		5.5-12.5

Abbreviations:

Conc. = concentration

 $\mu g/L$ = micrograms per liter

NA = not analyzed

NS = not sampled

TPHg = total petroleum hydrocarbons quantified as gasoline (by EPA Method 8015B)

MtBE = methyl tert-butyl ether (by EPA Method 8260B)

L = liter

 μ g/L = micrograms per liter

Notes:

- 1. = analyzed by EPA Method 8015B
- 2. = analyzed by EPA Method 8020
- 3. = pH readings were obtained onsite by utilizing a portable multimeter
- 4. = analyzed by EPA Method 8260B
- $5. \ \ \text{= groundwater was pumped into a vacuum truck. No water was discharged to the sewer.}$

Table 2: Groundwater Extraction and Treatment System

Operational Data

Former Chevron Station # 9-0260

21195 Foothill Boulevard, Hayward, California

								TPHg			Benzene			MTBE		
Date	Hour	System	Flow Meter	Period	Period Operational	Cumulative	TPHg	Period	Cumulative	Benzene	Period	Cumulative	MTBE	Period	Cumulative	Notes
	Meter	Uptime	Reading	Volume	Flow Rate	Volume Discharged	Concentration	Removal	Removal	Concentration	Removal	Removal	Concentration	Removal	Removal	Notes
(mm/dd/yy)	(hours)	(percentage)	(gal)	(gal)	(gpm)	(gal)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	
06/25/07	NA	NA	211	0	0.00	0	34,000	0.0	0.0	2,000	0.00	0.00	92	0.00	0.00	
07/16/07	NA	NA NA	211	0	0.00	0	42,000	0.0	0.0 2.6	1.700	0.00	0.00 0.10	F7	0.00	0.00	
07/17/07 07/26/07	NA NA	NA NA	7,524 9,422	7,313 1,898	4.51 1.17	7,313 9,211	42,000 57,000	2.6 0.9	3.5	1,700 1,800	0.10 0.03	0.10	57 51	0.00 0.00	0.00	3
08/03/07	NA NA	NA NA	10,947	1,525	0.13	10,736	37,000	0.9	4.2	1,000	0.03	0.13	31	0.00	0.00	
08/16/07	NA	NA NA	12,100	1,153	0.06	11,889		0.6	4.8		0.03	0.18		0.00	0.01	+
08/17/07	NA	NA	15,500	3,400	2.36	15,289	65,000	1.8	6.7	2,800	0.08	0.26	74	0.00	0.01	
08/22/07	NA	NA	18,700	3,200	0.44	18,489	44,000	1.2	7.8	2,100	0.06	0.32	56	0.00	0.01	
08/24/07	NA	NA	22,800	4,100	1.42	22,589		1.5	9.3		0.07	0.39		0.00	0.01	
08/29/07	NA	NA	24,810	2,010	0.28	24,599	43,000	0.7	10.1	2,000	0.03	0.42	53	0.00	0.01	
09/18/07	NA	NA NA	26,700	1,890	0.07	26,489		0.7	10.7		0.03	0.45		0.00	0.01	
09/21/07 09/26/07	NA NA	NA NA	29,900 39,700	3,200 9,800	0.74 1.36	29,689 39,489	42,000	1.1 3.4	11.8 15.3	1,800	0.05 0.15	0.50 0.65	33	0.00 0.00	0.01 0.02	
09/27/07	NA NA	NA NA	39,700 44,300	4,600	3.19	39,489 44,089	42,000	1.6	16.9	1,000	0.15	0.65	33	0.00	0.02	+
10/04/07	NA NA	NA NA	65,765	21,465	2.13	65,554	34.000	6.1	23.0	1,500	0.07	0.72	40	0.00	0.02	+
10/08/07	NA	NA	73,526	7,761	1.35	73,315	45,000	2.9	25.9	2,400	0.16	1.14	45	0.00	0.03	+
10/19/07	NA	NA	97,500	23,974	1.51	97,289	42,000	8.4	34.3	2,300	0.46	1.60	38	0.01	0.04	
10/25/07	NA	NA	117,400	19,900	2.30	117,189		7.0	41.3		0.38	1.98		0.01	0.04	2
12/05/07	2.0	NA	119,284	1,884	0.03	119,073	46,000	0.7	42.0	2,400	0.04	2.02	42	0.00	0.04	1
12/06/07	22.3	84.6%	121,500	2,216	1.54	121,289		0.9	42.8		0.04	2.06		0.00	0.04	
12/11/07 12/18/07	141.8 304.9	99.6% 97.1%	134,679 149,033	13,179 14,355	1.83 1.42	134,468 148,822	31,000	5.1 3.7	47.9 51.6	1,800	0.26 0.22	2.33 2.54	37	0.00 0.00	0.05 0.05	<u> </u>
12/18/07	518.7	97.1%	170,809	21,776	1.42	148,822	31,000	5.6	57.3	1,800	0.22	2.87	3/	0.00	0.05	
01/02/08	648.5	99.0%	183,000	12,191	1.41	182,789		4.2	61.4		0.33	3.11		0.00	0.06	
01/03/08	666.7	75.8%	185,361	2,361	1.64	185,150	41,000	0.8	62.2	2,400	0.05	3.16	35	0.00	0.06	+
01/10/08	690.4	14.1%	189,800	4,439	0.44	189,589	,,,,,,,	1.5	63.7	,	0.09	3.25		0.00	0.06	
01/11/08	718.3	100.0%	197,700	7,900	5.49	197,489		2.7	66.5		0.16	3.41		0.00	0.07	
01/18/08	882.8	97.9%	233,945	36,245	3.60	233,734	36,000	10.9	77.3	1,000	0.30	3.71	35	0.01	0.08	
01/23/08	1004.7	100.0%	254,185	20,240	2.81	253,974		6.1	83.4		0.17	3.88		0.01	0.08	
01/30/08 02/07/08	1061.7 1233.7	62.1% 89.6%	268,200 312,800	14,015	1.39 3.87	267,989 312,589	65,000	4.2 24.2	87.6 111.8	2,400	0.12 0.89	4.00 4.89	21	0.00 0.01	0.09 0.09	
02/07/08	1399.6	98.7%	312,800	44,600 28,972	2.87	341,561	65,000	24.2 15.7	111.8	2,400	0.89	4.89 5.47	21	0.01	0.09	2
02/26/08	1427.7	9.8%	346,091	4,319	0.25	345,880		2.3	127.5		0.09	5.56		0.00	0.10	4
03/04/08	1428.2	0.3%	346,400	309	0.03	346,189		0.2	130.0		0.01	5.56		0.00	0.10	
03/05/08	1,428.2	0.0%	346,400	0	0.00	346,189	40,000	0.0	130.0	2,100	0.00	5.56	28	0.00	0.10	+ -
03/13/08	1,617.8	98.7%	379,835	33,435	2.90	379,624	37,000	10.3	140.4	1,700	0.47	6.04	37	0.01	0.11	
08/01/08	1,617.8	0.0%	379,835	1,000	0.00	379,624	41,000	0.3	140.7	1,500	0.01	6.05	36	0.00	0.11	5
08/08/08	1,623.1	3.2%	380,302	467	0.05	380,091	40,000	0.2	140.9	1,900	0.01	6.06	35	0.00	0.11	
08/14/08	1,734.0 1,928.0	77.0% 100.0%	393,425	13,123	1.52	393,214		4.4 6.0	145.2 151.2		0.21 0.28	6.27 6.55		0.00 0.01	0.12 0.12	
08/22/08	,		411,400	17,975	1.56	411,189										
08/26/08	2,052.0	100.0%	421,400	10,000	1.74	421,189		3.3	154.6		0.16	6.71		0.00	0.12	
08/29/08	2,095.7	60.7%	425,300	3,900	0.90	425,089		1.3	155.9		0.06	6.77		0.00	0.12	
09/03/08	2,218.9	102.7%	436,999	11,699	1.02	436,788	31,000	3.0	158.9	970	0.09	6.87	33	0.00	0.13	<u> </u>
09/10/08	2,384.8	98.8%	453,500	16,501	1.64	453,289		4.3	163.2		0.13	7.00		0.00	0.13	
09/11/08	2,406.8	91.7%	456,388	2,888	2.01	456,177		0.7	163.9		0.02	7.02		0.00	0.13	
09/17/08	2,555.1	100.0%	472,712	16,324	1.89	472,501	32,000	4.2	168.1	1,300	0.13	7.15	22	0.00	0.14	
09/22/08	2,674.4	99.4%	484,718	12,006	1.67	484,507	,	3.1	171.3	-/	0.10	7.25		0.00	0.14	+
09/25/08	2,743.4	95.8%	491,450	6,732	1.56	491,239		1.7	171.3		0.05	7.23		0.00	0.14	+
							26,000			000			20			+
10/01/08	2,880.0	94.9%	504,825	13,375	1.55	504,614	26,000	2.9	175.9	980	0.11	7.42	28	0.00	0.15	
10/07/08	3,030.7	100.0%	504,826	1	0.00	504,615		0.0	175.9		0.00	7.42		0.00	0.15	
10/14/08	3,203.0	100.0%	521,800	16,974	1.68	521,589		3.7	179.6		0.14	7.55		0.00	0.15	

Table 2: Groundwater Extraction and Treatment System

Operational Data

Former Chevron Station # 9-0260

21195 Foothill Boulevard, Hayward, California

10/16/08	3,249.5	96.9%	525,436	3,636	1.26	525,225	27,000	0.8	180.4	1,100	0.03	7.59	34	0.00	0.15	
10/20/08	3,342.5	96.9%	532,668	7,232	1.26	532,457		1.6	182.0		0.07	7.65		0.00	0.15	
10/30/08	3,587.3	100.0%	551,119	18,451	1.28	550,908		4.2	186.2		0.17	7.82		0.01	0.16	
11/04/08	3,710.8	100.0%	566,883	15,764	2.19	566,672	25,000	3.3	189.5	670	0.09	7.91	24.0	0.00	0.16	
11/14/08	3,928.6	90.7%	591,371	24,488	1.70	591,160		5.1	194.6		0.14	8.05		0.00	0.17	
11/21/08	4,100.2	100.0%	609,095	17,724	1.76	608,884	87,000	12.9	207.4	2,700	0.40	8.45	30.0	0.00	0.17	
11/26/08	4,215.2	95.8%	619,510	10,415	1.45	619,299		7.6	215.0		0.23	8.68		0.00	0.17	
12/03/08	4,384.8	100.0%	634,191	14,681	1.46	633,980	33,000	4.0	219.1	710.0	0.09	8.77	26.0	0.00	0.18	
12/04/08	4,400.2	64.2%	635,755	1,564	1.09	635,544		0.4	219.5		0.01	8.78		0.00	0.18	
12/10/08	4,540.5	97.4%	648,910	13,155	1.52	648,699		3.6	223.1		0.08	8.86		0.00	0.18	
12/18/08	4,733.3	100.0%	666,837	17,927	1.56	666,626	39,000	5.8	228.9	730.0	0.11	8.97	24.0	0.00	0.18	
12/23/08	4,849.8	97.1%	678,134	11,297	1.57	677,923		3.7	232.6		0.07	9.03		0.00	0.19	
12/30/08	5,019.9	100.0%	696,221	18,087	1.79	696,010		5.9	238.5		0.11	9.15		0.00	0.19	
01/06/09	5,190.8	100.0%	713,656	17,435	1.73	713,445	21,000	3.1	241.6	690.0	0.10	9.25	22.0	0.00	0.19	
01/09/09	5,257.3	92.4%	719,457	5,801	1.34	719,246		1.0	242.6		0.03	9.28		0.00	0.19	
01/10/09	5,285.0	100.0%	720,715	1,259	0.87	720,504		0.2	242.8		0.01	9.29		0.00	0.19	
01/15/09	5,407.8	100.0%	730,670	9,955	1.38	730,459		1.7	244.5		0.06	9.34		0.00	0.20	
01/21/09	5,551.8	100.0%	746,771	16,101	1.86	746,560	17,000	2.3	246.8	640.0	0.09	9.43	25.0	0.00	0.20	
01/29/09	5,714.0	84.5%	764,570	17,799	1.55	764,359		2.5	249.3		0.10	9.52		0.00	0.20	
_	Year to Date Uptime Month to Date Uptime	96.4% 96.4%		Total Extr Average Operation	racted Volume (gal): al Flow Rate (gpm):	764,359 0.91	Pounds Removed: Gallons Removed:		249.3 40.9	Pounds Removed: Gallons Removed:		9.52 1.30	Pounds Removed: Gallons Removed:		0.20 0.03	

Notes:

- 1. = Hour Meter installed beginning at zero.
- 2. = system shutdown for carbon change out.
- 3. = BISCO unit was reset to zero hours following replacement of PLC
- 4. = system restarted for collecting compliance vapor samples. Upon collection of vapor samples, system was turned off pending carbon changeout.
- 5. = approximately 1,000 gallons of water pumped on 8/1/08 was not discharged to the sewer. Water was hauled offsite by IWM. System
- 6. = System started for full time operation.

Formulas and Assumptions:

- 1. Mass Removed During the Period = Volume of Water Extracted (in gallons) x Concentration (ug/L) x (g/10⁶ug) x (pound/453.6g) x (3.785 L/gal) When concentration of individual parameters were not detected, the concentration was assumed to half the detection limit for calculation purposes.
- 2. Gallons Removed = Mass (pounds) \times (Density)⁻¹ (cc/g) \times 453.6 (g/pound) \times (L/1000 cc) \times (gal/3.785 L)

TPHg = 0.73 g/ccBenzene = 0.88 g/cc

MTBE = 0.74 g/cc

3. Average Flow Rate = (Gallons of Extracted Water (gal) / Number of Operational Days) * (60 min/hr) * (24 hours/day)

Abbreviations:

TPHg = total petroleum hydrocarbons quantified as gasoline (by EPA Method 8015B)

BTEX = benzene, toluene, ethylbenzene, and total xylenes (by EPA Method 8020)

MTBE = methyl tert-butyl ether (by EPA Method 8260B)

L = liter

μg/L = micrograms per liter

gal = gallon

gpm = gallon per minute

lbs = pounds mg #NAME?

g = gramsBlank Cell = indicates not sampled

Table 3: Groundwater Extraction and Treatment System

Effluent Compliance Results Former Chevron Station # 9-0260 21195 Foothill Boulevard, Hayward, California

Sampling			Conc	entrations				
Date	TPHg ¹	Benzene ²	Toluene ²	Ethlybenzene ²	Xylenes ²	MTBE ⁴	pH ³	Notes
(mm/dd/yy)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	•	
06/25/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.17	
07/17/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.1	
07/26/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
08/17/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.2	
08/22/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3	
08/29/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.89	
09/26/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.5	
10/04/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.92	
10/08/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.36	
10/19/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3	
10/25/07	NS	NS	NS	NS	NS	NS	7.3	
12/05/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
12/06/07	NS	NS	NS	NS	NS	NS	7.5	
12/18/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8	
01/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.03	
01/18/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8	
02/07/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.65	
02/14/08	NS	NS	NS	NS	NS	NS	6.72	
03/05/08	< 50	< 0.5	0.7	< 0.5	< 1.5	< 0.5	8.3	5
03/13/08	120	2.2	17	1.2	23	< 0.5	NA	6
08/01/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.25	7
08/08/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.01	
09/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.41	
09/17/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.47	
10/01/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.73	
10/16/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
11/04/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.42	
11/21/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.69	
12/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.32	
12/18/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.70	
01/06/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	8.65	
01/21/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
Regulatory Limits (ug/L)	15,000	ND	ND	ND	ND		5.5 <l<12.5< th=""><th></th></l<12.5<>	

Abbreviations & Notes:

- 1. = analyzed by EPA Method 8015B
- 2. = analyzed by EPA Method 8020
- 3. = pH readings were obtained onsite by utilizing a portable multimeter
- 4. = analyzed by EPA Method 8260B
- 5. = Effluent Permit Dicharge Limitation of non detect was exeeded. The system was shut down the day the results were obtained (3/13/08), confirmation samples were collected and the OLSD was notified persuant to the discharge permit. No violation was issued by the OLSD
- 6. =Confirmation samples results collected prior to system shut down persuant to results of samples collected on 3/5/08. System was shut down pending results and a carbon change out/installation of additional carbon vessel were arranged in series. The results were forwarded to the OLSD persuant to permit requirements and no associated fines were assessed due to the analytical results.
- 7. = Groundwater was pumped into a vacuum truck. No water was discharged to the sewer pending recipt of analytical results.
- μg/L = micrograms per liter
- NA = not analyzed
- ND = non detect
- < = not detected at or above laboratory reporting limit indicated
- $\label{eq:TPHg} \textit{TPHg} = \textit{total petroleum hydrocarbons quantified as gasoline}$
- $\label{eq:BTEX} {\tt BTEX} = {\tt benzene, toluene, ethylbenzene, and total } xylenes$
- MTBE = methyl tertiary butyl ether
- OLSD = Oro Loma Sanitation District

APPENDIX A

LABORATORY ANALYTICAL



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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1126976. Samples arrived at the laboratory on Wednesday, January 07, 2009. The PO# for this group is 0015025028 and the release number is COSTA.

Client Description	<u>Lancaster Labs Number</u>
INF-W-090106 Grab Water	5571051
MID-1-W-090106 Grab Water	5571052
MID-2-W-090106 Grab Water	5571053
EFF-W-090106 Grab Water	5571054

ELECTRONIC	CRA	Attn: Charlotte Evans
COPY TO		
ELECTRONIC	Chevron	Attn: CRA EDD
COPY TO		
ELECTRONIC	CRA	Attn: Jeff Schrupp
COPY TO		
ELECTRONIC	Chevron	Attn: C Sanders
COPY TO		



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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Michele M. Turner

middele M. Turner

Director



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Lancaster Laboratories Sample No. WW5571051

Group No. 1126976

INF-W-090106 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 INF

Collected: 01/06/2009 12:15 by VH

Submitted: 01/07/2009 09:10

Reported: 01/14/2009 at 13:31

Discard: 02/14/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

1995I

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	21,000	500	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	690	5.0	ug/l	10
02164	Toluene	108-88-3	4,300	10	ug/l	20
02166	Ethylbenzene	100-41-4	460	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	3,600	15	ug/l	10
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	22	1	ug/l	2

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/08/2009 17:01	Carrie E Youtzy	10
05879	BTEX	SW-846 8020A	1	01/08/2009 17:01	Carrie E Youtzy	10
05879	BTEX	SW-846 8020A	1	01/09/2009 09:55	Carrie E Youtzy	20
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/09/2009 20:51	Michael A Ziegler	2
01146	GC VOA Water Prep	SW-846 5030B	1	01/08/2009 17:01	Carrie E Youtzy	10
01146	GC VOA Water Prep	SW-846 5030B	2	01/09/2009 09:55	Carrie E Youtzy	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2009 20:51	Michael A Ziegler	2



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Lancaster Laboratories Sample No. WW5571052

Group No. 1126976

MID-1-W-090106 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-1

Collected:01/06/2009 12:10 by VH

Submitted: 01/07/2009 09:10

Reported: 01/14/2009 at 13:31

Discard: 02/14/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

995M1

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	79	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/08/2009 15:49	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/08/2009 15:49	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/09/2009 21:15	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/08/2009 15:49	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2009 21:15	Michael A Ziegler	1



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Lancaster Laboratories Sample No. WW5571053

Group No. 1126976

Account Number: 10880

MID-2-W-090106 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-2

Collected:01/06/2009 12:05 by VH

Submitted: 01/07/2009 09:10 ChevronTexaco

Reported: 01/14/2009 at 13:31 6001 Bollinger Canyon Rd L4310

Discard: 02/14/2009 San Ramon CA 94583

995M2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/08/2009 16:13	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/08/2009 16:13	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/09/2009 21:39	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/08/2009 16:13	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2009 21:39	Michael A Ziegler	1



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Lancaster Laboratories Sample No. WW5571054

Group No. 1126976

EFF-W-090106 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 EFF Collected:01/06/2009 12:00 by VH

Submitted: 01/07/2009 09:10

Reported: 01/14/2009 at 13:31

Discard: 02/14/2009

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Account Number: 10880

1995E

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/08/2009 16:37	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/08/2009 16:37	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/09/2009 22:03	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/08/2009 16:37	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/09/2009 22:03	Michael A Ziegler	1



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1126976

Reported: 01/14/09 at 01:31 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 09008A53A	Sample nu	mber(s):	5571051-55	71054				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	105	109	75-135	3	30
Benzene	N.D.	0.5	ug/l	100	99	86-119	0	30
Toluene	N.D.	0.5	ug/l	95	95	82-119	0	30
Ethylbenzene	N.D.	0.5	ug/l	93	93	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	94	93	82-120	0	30
Batch number: D090093AA	Sample nu	mber(s):	5571051-55	71054				
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	88	87	73-119	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	%REC %RE		RPD MAX	<u>Conc</u>	Conc	RPD	Max
Batch number: 09008A53A TPH-GRO N. CA water C6-C12 Benzene Toluene Ethylbenzene Total Xylenes	Sample number 112 113 110 109 111	er(s): 5571051-63-15478-13178-12975-13384-131	5571054 UNSPK	C: 5571052,	5571053		
Batch number: D090093AA Methyl Tertiary Butyl Ether	Sample numbe	er(s): 5571051- 69-127	5571054 UNSPK	X: P569313			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 09008A53A

	Trifluorotoluene-F	Trifluorotoluene-P	
5571051	88	89	
5571052	84	87	
5571053	78	87	
5571054	76	86	
Blank	77	85	

*- Outside of specification

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



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1126976

Reported: 01/14/09 at 01:31 PM

Surrogate Quality Control

 LCS
 89
 88

 LCSD
 92
 87

 MS
 83
 88

Limits: 63-135 69-129

Analysis Name: MTBE by GC/MS (water)

Batch number: D090093AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5571051	85	89	100	103
5571052	87	92	93	100
5571053	85	89	91	96
5571054	89	95	95	99
Blank	87	92	94	98
LCS	87	93	94	103
LCSD	86	92	92	101
MS	86	92	92	101
Limits:	80-116	77-113	80-113	78-113

^{*-} Outside of specification

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

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

Chevron California Region Analysis Request/Chain of Custody

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Acct. #: 10880

For Lancaster Laboratories use only Group # 1126976 Sample #: 5571051-54

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Facility #: 9-0260 M	10		····				Γ	Π						Pres	erva	tior	ı Co	des				Pre	serv	tive Cod	es
Site Address: 21995 Foothill Blvd, Hayward, California Chevron PM: <u>Aaron Costa</u> Lead Consultant: <u>Conestoga-Rovers& Associates</u>														Th. 2)				-			H = HCI N = HN(S = H ₂ S) ₃	T = Thio B = NaC O = Othe	Н	
Consultant/Office: <u>CRA</u>	5900 H	ollis St., S				ates			Containers					13 Proirity Pollutant Metals (EPA 200)	Ni, Se, Si,	1)							e for 8	west detec 260 compo	
Consultant Prj. Mgr.: Cl Consultant Phone #: 51				Fax #: 510-420)-9170	 ,			₹					Metals	Cu, Pto, M.	A 420.1						Email res	ults to) :	
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MID-I	W		NA	09/01/01		No	X		5	Х	X						X					VOAS w	rith H	<u>Cl</u>	
MID-2	w		NA	09/01/00	12:05	No	X		5	X	X						X					VOAS	with F	ICI	İ
EFF	W		NA	09/01/06	12:00	No	Х		5	X	Х						X					VOAs w	ith H	C1	
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Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. ppm 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.
- parts per billion dqq
- Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight basis concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Α

В

С

D

Ε

J

Ν

Ρ

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TIC is a possible aldol-condensation product Analyte was also detected in the blank	B E	Value is <crdl, but="" due="" estimated="" interference<="" th="" to="" ≥idl=""></crdl,>
Pesticide result confirmed by GC/MS	М	Duplicate injection precision not met
Compound quatitated on a diluted sample	N	Spike amount not within control limits
Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
the instrument		for calculation
Estimated value	U	Compound was not detected
Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Concentration difference between primary and	*	Duplicate analysis not within control limits

Correlation coefficient for MSA < 0.995

Inorganic Qualifiers

U Compound was not detected

confirmation columns >25%

X,Y,ZDefined in case narrative

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

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 guestions 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1129079. Samples arrived at the laboratory on Thursday, January 22, 2009. The PO# for this group is 0015025028 and the release number is COSTA.

Client Description	Lancaster Labs Number
INF-W-090121 Grab Water	5582315
MID-1-W-090121 Grab Water	5582316
MID-2-W-090121 Grab Water	5582317
EFF-W-090121 Grab Water	5582318

ELECTRONIC COPY TO	CRA	Attn: Charlotte Evans
	Chevron	Attn: CRA EDD
COPY TO	CD 4	A., T. CC. C. 1
ELECTRONIC COPY TO	CRA	Attn: Jeff Schrupp
	Chevron	Attn: C Sanders
COPY TO		



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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Marla S. Lord Senior Specialist



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Lancaster Laboratories Sample No. WW5582315

Group No. 1129079

INF-W-090121 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 INF

Collected:01/21/2009 14:15 by VH

Submitted: 01/22/2009 09:10

Reported: 01/29/2009 at 13:45

Discard: 03/01/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

0260I

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	17,000	500	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	640	2.5	ug/l	5
02164	Toluene	108-88-3	3,300	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	360	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	2,800	7.5	ug/l	5
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	25	1	ug/l	2

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/27/2009 10:49	Carrie E Youtzy	10
05879	BTEX	SW-846 8020A	1	01/26/2009 18:54	Carrie E Youtzy	5
05879	BTEX	SW-846 8020A	1	01/27/2009 10:49	Carrie E Youtzy	10
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/26/2009 13:05	Ginelle L Feister	2
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2009 18:54	Carrie E Youtzy	5
01146	GC VOA Water Prep	SW-846 5030B	2	01/27/2009 10:49	Carrie E Youtzy	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/26/2009 13:05	Ginelle L Feister	2



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Page 1 of 1

Lancaster Laboratories Sample No. WW5582316

Group No. 1129079

MID-1-W-090121 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-1

Collected: 01/21/2009 14:10 by VH

Submitted: 01/22/2009 09:10

Reported: 01/29/2009 at 13:45

Discard: 03/01/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

02601

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/26/2009 19:18	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/26/2009 19:18	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/26/2009 13:29	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2009 19:18	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/26/2009 13:29	Ginelle L Feister	1



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Lancaster Laboratories Sample No. WW5582317

Group No. 1129079

Account Number: 10880

MID-2-W-090121 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-2

Collected:01/21/2009 14:05 by VH

Submitted: 01/22/2009 09:10 ChevronTexaco

Reported: 01/29/2009 at 13:45 6001 Bollinger Canyon Rd L4310

Discard: 03/01/2009 San Ramon CA 94583

02602

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/26/2009 19:43	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/26/2009 19:43	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/26/2009 13:53	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2009 19:43	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/26/2009 13:53	Ginelle L Feister	1



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Lancaster Laboratories Sample No. WW5582318

Group No. 1129079

EFF-W-090121 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 EFF

Collected:01/21/2009 14:00 by VH

Submitted: 01/22/2009 09:10

Reported: 01/29/2009 at 13:45

Discard: 03/01/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

0260E

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
				Limit		
01729	TPH-GRO N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT					Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	01/27/2009 19:03	Carrie E Youtzy	1
05879	BTEX	SW-846 8020A	1	01/27/2009 19:03	Carrie E Youtzy	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	01/26/2009 14:16	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/27/2009 19:03	Carrie E Youtzy	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/26/2009 14:16	Ginelle L Feister	1



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1129079

Reported: 01/29/09 at 01:45 PM

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 09026A53A	Sample nu	mber(s): 5	5582315-55	82317				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	117	112	75-135	4	30
Benzene	N.D.	0.5	ug/l	103	107	86-119	3	30
Toluene	N.D.	0.5	ug/l	105	108	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	107	111	81-119	3	30
Total Xylenes	N.D.	1.5	ug/l	109	112	82-120	3	30
Batch number: 09027A53A	Sample nu						_	
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	113	116	75-135	3	30
Benzene	N.D.	0.5	ug/l	104	104	86-119	0	30
Toluene	N.D.	0.5	ug/l	105	105	82-119	0	30
Ethylbenzene	N.D.	0.5	ug/l	106	107	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	108	108	82-120	0	30
Batch number: D090261AA Methyl Tertiary Butyl Ether	Sample num	mber(s): 5	5582315-55 ug/l	82318 108		73-119		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 09026A53A TPH-GRO N. CA water C6-C12 Benzene Toluene Ethylbenzene Total Xylenes	Sample 121 106 106 111 113	number(s)	: 5582315 63-154 78-131 78-129 75-133 84-131	-558231	.7 UNSP	K: P579008,	P579009		
Batch number: 09027A53A TPH-GRO N. CA water C6-C12 Benzene Toluene Ethylbenzene Total Xylenes	Sample 122 108 106 115 116	number(s)	: 5582318 63-154 78-131 78-129 75-133 84-131	UNSPK:	P5790!	58, 5582318			
Batch number: D090261AA Methyl Tertiary Butyl Ether	Sample 104	number(s) 101	: 5582315 69-127	-558231 3	.8 UNSP	K: P579018			

*- Outside of specification

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



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1129079

Reported: 01/29/09 at 01:45 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 09026A53A

Trifluorotoluene-F

	Trifluorotoluene-F	Trifluorotoluene-P
5582315	80	88
5582316	80	90
5582317	79	88
Blank	80	86
LCS	86	87
LCSD	81	87
MS	87	87
Limits:	63-135	69-129

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 09027A53A

	Trifluorotoluene-F	Trifluorotoluene-P
5582318	80	87
Blank	80	87
LCS	82	87
LCSD	83	87
MS	83	91
Limita.	63_135	69_129

Analysis Name: MTBE by GC/MS (water)

Batch number: D090261AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5582315	91	96	94	100
5582316	94	98	90	97
5582317	94	94	91	98
5582318	94	95	90	98
Blank	90	95	90	97
LCS	89	97	90	100
MS	94	97	91	102
MSD	90	97	89	102
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Chevron California Region Analysis Request/Chain of Custody



0/2/09-13

	For Lancaster Laboratories use only	
Acct. #: 10880	Group # 1129079 Sample #:	5682215-18
Acct. #: 1.0000	Group # 11010 / 1 Sample #:	3700317-10

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Facility #: 9-0260 M10							Π							Pres	erva	tion	Coc	les			Preservative Code		
Site Address: 21995 Foothill Blvd, Hayward, California										-					1.2)				-		H = HCl N = HNO ₃ S = H ₂ SO ₄	T = Thic B = Na(O = Oth	ЭH
Chevron PM: <u>Aaron Co</u>						ates			ers					<u>@</u>	É ïo						☐ Must meet k		
Consultant/Office: CR/			te A, E	neryville, CA 946	<u> 308</u>				Containers	ŀ				(EPA 200)	N. Se.	Ξ					possible for		ounds
Consultant Prj. Mgr.: C	harlotte	Evans			· · · · · · · · · · · · · · · · · · ·	 .			ි					stats (Pb, M	420	ł				Comments / R Email results		
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Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. ppm 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.
- parts per billion dqq
- Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight basis concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

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TIC is a possible aldol-condensation product Analyte was also detected in the blank	B E	Value is <crdl, but="" due="" estimated="" interference<="" th="" to="" ≥idl=""></crdl,>
Pesticide result confirmed by GC/MS	М	Duplicate injection precision not met
Compound quatitated on a diluted sample	N	Spike amount not within control limits
Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
the instrument		for calculation
Estimated value	U	Compound was not detected
Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Concentration difference between primary and	*	Duplicate analysis not within control limits

Correlation coefficient for MSA < 0.995

Inorganic Qualifiers

U Compound was not detected

confirmation columns >25%

X,Y,ZDefined in case narrative

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

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 guestions 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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