Chevron

Aaron Costa
Project Manager
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October 10, 2008

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

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510·420·0700 Facsimile: 510·420·9170
www.CRAworld.com

October 10, 2008

Reference No. 311915

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

Dear Mr. Carson:

Re: Monthly Discharge Report – September 2008
Former Chevron Service Station #9-0260
21995 Foothill Boule1evard
Hayward, California
Permit No. 007-03

Conestoga-Rovers & Associates (CRA) prepared this document on behalf of Chevron Environmental Management Company (Chevron), 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.

If you have any questions regarding the contents of this document, please call Jeff Schrupp at (510) 420-3362 or Casey Sanders at (916) 677-3407, extension 118.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Casey Sanders

Casey Sanders

CS/doh/1

Encl.

cc: Mr. Aaron Costa, Chevron Environmental Management Company

CONESTOGA-ROVERS
& ASSOCIATES

MONTHLY DISCHARGE REPORT – SEPTEMBER 2008

Reporting Period Data Summary (08/26/08 to 09/25/08)

Compliance Sampling Frequency	Monthly
Initial Totalizer Reading	421,400 gallons
Final Totalizer Reading	491,450 gallons
Discharged Volume	70,050 gallons
Average Discharge Flow Rate	1.62 gallons per minute
Maximum Discharge Flow Rate	2.01 gallons per minute
Discharge Violations or Exceedances	None

Table 1
Groundwater Extraction and Treatment System
Influent and Effluent Dissolved Phase Hydrocarbon Concentrations
Former Chevron Station # 9-0260
21195 Foothill Boulevard, Hayward, California

	Influent						Midfluent 1						Midfluent 2						Effluent						
Sample Date (mm/dd/yy)	TPHg Conc. (µg/L)	Benzene[2] Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MtBE[4] Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene[2] Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MtBE[4] Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene[2] Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MtBE[4] Conc. (µg/L)	TPHg Conc. (µg/L)	Benzene[2] Conc. (µg/L)	Toluene Conc. (µg/L)	Ethylbenzene Conc. (µg/L)	Xylenes Conc. (µg/L)	MtBE[4] Conc. (µg/L)	pH[3]
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 vessel added 07/22/08**						**120**	**2.2**	**17**	**1.2**	**23**	< 0.5	NS
8/1/2008[5]	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	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.47
Regulatory Limits (ug/L):																			**15,000**	**ND**	**ND**	**ND**	**ND**	**ND**	**5.5-12.5**

Abbreviations:

Conc. = concentration
µg/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
µg/L = micrograms per liter

Notes:

1. = analyzed by EPA Method 8015B
TPH (hexane extractable = oil and grease) analyzed by EPA Method 1664.
2. = analyzed by EPA Method 8020
3. = pH readings were obtained onsite by utilizing a portable multimeter
4. = analyzed by EPA Method 8260B
5. = groundwater was pumped into a vacuum truck. No water was discharged to the sewer.

Table 2
Groundwater Extraction and Treatment System
Operational Data and Dissolved Phase Hydrocarbon Mass Removal Data
Former Chevron Station #9-0260
21995 Foothill Boulevard, Hayward, California

Date	System Operational Data						TPHg			Benzene			MTBE			Notes
(mm/dd/yy)	Hour Meter (hours)	System Uptime (percentge)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Concentration (µg/L)	Period Removal[6] (pounds)	Cumulative Removal (pounds)	Benzene Concentration (µg/L)	Period Removal[6] (pounds)	Cumulative Removal (pounds)	MTBE Concentration (µg/L)	Period Removal[6] (pounds)	Cumulative Removal (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	211	0	0.00	0		0.0	0.0		0.00	0.00		0.00	0.00	
07/17/07	NA	NA	7,524	7,313	4.51	7,313	42,000	2.6	2.6	1,700	0.10	0.10	57	0.00	0.00	3
07/26/07	NA	NA	9,422	1,898	1.17	9,211	57,000	0.9	3.5	1,800	0.03	0.13	51	0.00	0.00	
08/03/07	NA	NA	10,947	1,525	0.13	10,736		0.7	4.2		0.02	0.16		0.00	0.00	
08/16/07	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	26,700	1,890	0.07	26,489		0.7	10.7		0.03	0.45		0.00	0.01	
09/21/07	NA	NA	29,900	3,200	0.74	29,689		1.1	11.8		0.05	0.50		0.00	0.01	
09/26/07	NA	NA	39,700	9,800	1.36	39,489	42,000	3.4	15.3	1,800	0.15	0.65	33	0.00	0.02	
09/27/07	NA	NA	44,300	4,600	3.19	44,089		1.6	16.9		0.07	0.72		0.00	0.02	
10/04/07	NA	NA	65,765	21,465	2.13	65,554	34,000	6.1	23.0	1,500	0.27	0.98	40	0.01	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	141.8	99.6%	134,679	13,179	1.83	134,468		5.1	47.9		0.26	2.33		0.00	0.05	
12/18/07	304.9	97.1%	149,033	14,355	1.42	148,822	31,000	3.7	51.6	1,800	0.22	2.54	37	0.00	0.05	
12/27/07	518.7	99.0%	170,809	21,776	1.68	170,598		5.6	57.3		0.33	2.87		0.01	0.06	
01/02/08	648.5	90.1%	183,000	12,191	1.41	182,789		4.2	61.4		0.24	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	1061.7	62.1%	268,200	14,015	1.39	267,989		4.2	87.6		0.12	4.00		0.00	0.09	
02/07/08	1233.7	89.6%	312,800	44,600	3.87	312,589	65,000	24.2	111.8	2,400	0.89	4.89	21	0.01	0.09	
02/14/08	1399.6	98.7%	341,772	28,972	2.87	341,561		15.7	127.5		0.58	5.47		0.01	0.10	2
02/26/08	1427.7	9.8%	346,091	4,319	0.25	345,880		2.3	129.9		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	2100.0	0.00	5.56	28.0	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	1700.0	0.47	6.04	37.0	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	1500.0	0.01	6.05	36.0	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	1900.0	0.01	6.06	35.0	0.00	0.11	
08/14/08	1,734.0	77.0%	393,425	13,123	1.52	393,214		4.4	145.2		0.21	6.27		0.00	0.12	
08/22/08	1,928.0	100.0%	411,400	17,975	1.56	411,189		6.0	151.2		0.28	6.55		0.01	0.12	
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	
09/03/08	2,218.9	86.9%	436,999	15,599	1.35	436,788	31,000	4.0	158.6	970.0	0.13	6.84	33.0	0.00	0.13	
09/10/08	2,384.8	98.8%	453,500	16,501	1.64	453,289		4.3	162.9		0.13	6.97		0.00	0.13	
09/11/08	2,406.8	91.7%	456,388	2,888	2.01	456,177		0.7	163.6		0.02	6.99		0.00	0.13	
09/17/08	2,555.1	103.0%	472,712	16,324	1.89	472,501	32,000	4.2	167.9	13.0	0.13	7.12	22.0	0.00	0.14	
09/22/08	2,674.4	99.4%	484,718	12,006	1.67	484,507		3.1	171.0		0.10	7.22		0.00	0.14	
09/25/08	2,743.4	95.8%	491,450	6,732	1.56	491,239		1.7	172.7		0.05	7.28		0.00	0.14	
Year to Date Uptime		32.7%		**Total Extracted Volume (gal):**		**492,239**	**Pounds Removed:**		**172.7**	**Pounds Removed:**		**7.28**	**Pounds Removed:**		**0.14**	
Month to Date Uptime		99.3%		**Average Operational Flow Rate (gpm):**		**0.75**	**Gallons Removed:**		**28.4**	**Gallons Removed:**		**0.99**	**Gallons Removed:**		**0.02**	

Notes:

1. = hour meter installed begining 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:

6. Mass Removed During the Period = Volume of Water Extracted (in gallons) x Concentration (mg/L) x (g/10^{6}mg) 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.
7. Gallons Removed = Mass (pounds) x (Density)[1] (cc/g) x 453.6 (g/pound) x (L/1000 cc) x (gal/3.785 L)
   Density: = 0.73 g/cc
   = 0.88 g/cc
   = 0.78 g/cc
   = 0.74 g/cc
8. 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 = miligrams per liter
g = grams
Blank Cell = indicates not sampled
NA = not available (hour meter was not installed on the groundwater treatment system)

Table 3
Groundwater Extraction and Treatment System
Groundwater Effluent Compliance Sampling Results
Former Chevron Station # 9-0260
21195 Foothill Boulevard, Hayward, California

Sampling Date (mm/dd/yy)	Concentrations						pH[3]	Notes
	TPHg[1] (µg/L)	Benzene[2] (µg/L)	Toluene[2] (µg/L)	Ethlybenzene[2] (µg/L)	Xylenes[2] (µg/L)	MTBE[4] (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	
10/09/07	< 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	
Regulatory Limits (ug/L)	**15,000**	**ND**	**ND**	**ND**	**ND**		**5.5<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 resuts were obtained (3/13/08), confirmation samples were collected and the OLSD was notified persuant to the discharge permit. No violation will be issued by the Oro Loma Sanitation District.
6. Confirmation samples results collected prior to system shut down persuant to results of samples collected on 3/5/08. System shut down pending results and a carbon change out/installation of additional carbon vessel arranged in series. The results were forwarded to the OLSD persuant to permit requirements and no associated fines will be 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
TPHg = total petroleum hydrocarbons quantified as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
MTBE = methyl tertiary butyl ether
OLSD = Oro Loma Sanitation District

ATTACHMENT A

Laboratory Analytical Reports

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon 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 1108569. Samples arrived at the laboratory on Friday, September 05, 2008. The PO# for this group is 0015025028 and the release number is COSTA.

Client Description	Lancaster Labs Number
INF-W-080903 Grab Water	5459560
MID-1-W-080903 Grab Water	5459561
MID-2-W-080903 Grab Water	5459562
EFF-W-080903 Grab Water	5459563

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

Lancaster Laboratories

Analysis Report

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

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW5459560 **Group No. 1108569**

INF-W-080903 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 INF
Collected:09/03/2008 13:30 by VH

Account Number: 10880

Submitted: 09/05/2008 10:15
Reported: 09/16/2008 at 11:52
Discard: 10/17/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOOIN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	31,000	1,000	ug/l	20
05879	BTEX					
02161	Benzene	71-43-2	970	10	ug/l	20
02164	Toluene	108-88-3	4,900	10	ug/l	20
02166	Ethylbenzene	100-41-4	800	10	ug/l	20
02171	Total Xylenes	1330-20-7	4,600	30	ug/l	20
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	33	5	ug/l	10

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/14/2008 08:13	Martha L Seidel	20
05879	BTEX	SW-846 8020A	1	09/14/2008 08:13	Martha L Seidel	20
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/12/2008 14:25	Ginelle L Feister	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/14/2008 08:13	Martha L Seidel	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2008 14:25	Ginelle L Feister	10

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Analysis Report

Lancaster Laboratories Sample No. WW5459561 **Group No. 1108569**

MID-1-W-080903 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 MID-1
Collected:09/03/2008 13:25 by VH

Account Number: 10880

Submitted: 09/05/2008 10:15
Reported: 09/16/2008 at 11:52
Discard: 10/17/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOOM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/14/2008 03:34	Martha L Seidel	1
05879	BTEX	SW-846 8020A	1	09/14/2008 03:34	Martha L Seidel	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/12/2008 14:49	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/14/2008 03:34	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2008 14:49	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW5459562 **Group No. 1108569**

MID-2-W-080903 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 MID-2
Collected:09/03/2008 13:20 by VH

Account Number: 10880

Submitted: 09/05/2008 10:15
Reported: 09/16/2008 at 11:52
Discard: 10/17/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOO-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/14/2008 03:55	Martha L Seidel	1
05879	BTEX	SW-846 8020A	1	09/14/2008 03:55	Martha L Seidel	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/12/2008 15:12	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/14/2008 03:55	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2008 15:12	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW5459563 **Group No. 1108569**

EFF-W-080903 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 EFF
Collected:09/03/2008 13:15 by VH

Account Number: 10880

Submitted: 09/05/2008 10:15
Reported: 09/16/2008 at 11:52
Discard: 10/17/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

FOOEF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/14/2008 05:21	Martha L Seidel	1
05879	BTEX	SW-846 8020A	1	09/14/2008 05:21	Martha L Seidel	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/12/2008 15:36	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/14/2008 05:21	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/12/2008 15:36	Ginelle L Feister	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1108569
Reported: 09/16/08 at 11:52 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 08257A53A	Sample number(s): 5459560-5459563							
TPH-GRO - Waters	N.D.	50.	ug/l	134	129	75-135	4	30
Benzene	N.D.	0.5	ug/l	102	107	86-119	5	30
Toluene	N.D.	0.5	ug/l	104	109	82-119	5	30
Ethylbenzene	N.D.	0.5	ug/l	101	107	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	104	110	82-120	6	30
Batch number: D082562AA	Sample number(s): 5459560-5459563							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	102		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 Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08257A53A	Sample number(s): 5459560-5459563 UNSPK: P457023, P457024								
TPH-GRO - Waters	126		63-154						
Benzene	109		78-131						
Toluene	113		78-129						
Ethylbenzene	110		75-133						
Total Xylenes	113		84-131						
Batch number: D082562AA	Sample number(s): 5459560-5459563 UNSPK: P459597								
Methyl Tertiary Butyl Ether	99	102	69-127	3	30				

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 - Waters
Batch number: 08257A53A

	Trifluorotoluene-F	Trifluorotoluene-P
5459560	76	88
5459561	81	84
5459562	80	85
5459563	81	85
Blank	80	84

*- 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.

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1108569
Reported: 09/16/08 at 11:52 AM

Surrogate Quality Control

LCS	88	86
LCSD	87	86
MS	84	87
Limits:	63-135	69-129

Analysis Name: MTBE by GC/MS (water)
Batch number: D082562AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5459560	85	90	91	98
5459561	85	90	87	95
5459562	87	91	87	95
5459563	86	90	87	95
Blank	85	90	87	93
LCS	87	91	88	97
MS	85	89	87	98
MSD	88	93	89	99
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

Lancaster Laboratories

Ø90408-Ø1

For Lancaster Laboratories use only

Acct. #: 10880 Group #: 1108569 Sample #: 5459560-63

SCR#:

Facility #: 9-0260 M1L

Site Address: 21995 Foothill Blvd, Hayward, California

Chevron PM: Olivia Skance Lead Consultant: Conestoga-Rovers& Associates

Consultant/Office: CRA 5900 Hollis St., Ste A, Emeryville, CA 94608

Consultant Prj. Mgr.: Charlotte Evans

Consultant Phone #: 510-420-3351 Fax #: 510-420-9170

Sampler: Vartan Hanedanian

Service Order #: ☐ Non SAR:

Analyses Requested / **Preservation Codes**

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX by 8020	TPHg by 8015	Cyanide (EPA 335.4)	pH (EPA 150.1)	13 Proirity Pollutant Metals (EPA 200) (An, Ar, Be, Ca, Ch, Cu, Pb, M, Ni, Se, Si, Th, Z)	Total Phenols (EPA 420.1)	MTBE by 8260B					Comments / Remarks
INF	W		NA	08/09/03	1:30	No	X		6	X	X					X					VOAs with HCl
MID-1	W		NA	08/09/03	1:25	No	X		6	X	X					X					VOAS with HCl
MID-2	W		NA	08/09/03	1:20	No	X		6	X	X					X					VOAS with HCl
EFF	W		NA	08/09/03	1:15	No	X		6	X	X					X					VOAs with HCl

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ Must meet lowest detection limits possible for 8260 compounds

Comments / Remarks

Email results to:
jschrupp@craworld.com and cevans@craworld.com
csanders@craworld.com

email edf to:
chevronedf@craworld.com

Turnaround Time Requested (TAT) (please circle)

24 hour 72 hour 48 hour
STD 4 day (5 day)

Data Package Options (please circle if required)
(QC Summary) Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Vartan Hanedanian	9-3-08	0815	C. [illegible]	04 SEP 08	0815
[signature]	9.4.8	1615	[signature]	9.4.8	1615
Relinquished by Commercial Carrier: UPS FedEx Other DHL			Received by: [signature]	9/5/08	1015
Temperature Upon Receipt 0.6-3.0 C°			Custody Seals Intact? Yes No		

3460 Rev. 11/10/05

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

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
C	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)	**l**	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

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.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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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Lancaster Laboratories

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Analysis Report

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 1110999. Samples arrived at the laboratory on Friday, September 19, 2008. The PO# for this group is 0015025028 and the release number is COSTA.

Client Description	Lancaster Labs Number
INF-W-080917 Grab Water	5473629
MID-1-W-080917 Grab Water	5473630
MID-2-W-080917 Grab Water	5473631
EFF-W-080917 Grab Water	5473632

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

Lancaster Laboratories

Analysis Report

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

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW5473629 **Group No. 1110999**

INF-W-080917 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 INF
Collected:09/17/2008 12:15 by VH

Account Number: 10880

Submitted: 09/19/2008 11:00
Reported: 09/29/2008 at 11:29
Discard: 10/30/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HAYIN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	32,000	5,000	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	1,300	50	ug/l	100
02164	Toluene	108-88-3	7,300	50	ug/l	100
02166	Ethylbenzene	100-41-4	710	50	ug/l	100
02171	Total Xylenes	1330-20-7	5,400	150	ug/l	100
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	22	13	ug/l	25

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/24/2008 19:54	Patrick N Evans	100
05879	BTEX	SW-846 8020A	1	09/24/2008 19:54	Patrick N Evans	100
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/26/2008 16:25	Ginelle L Feister	25
01146	GC VOA Water Prep	SW-846 5030B	1	09/24/2008 19:54	Patrick N Evans	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2008 16:25	Ginelle L Feister	25

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Analysis Report

Lancaster Laboratories Sample No. WW5473630 **Group No. 1110999**

MID-1-W-080917 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 MID-1
Collected:09/17/2008 12:10 by VH

Account Number: 10880

Submitted: 09/19/2008 11:00
Reported: 09/29/2008 at 11:29
Discard: 10/30/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HAYM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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	0.8	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/24/2008 17:02	Patrick N Evans	1
05879	BTEX	SW-846 8020A	1	09/24/2008 17:02	Patrick N Evans	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/26/2008 16:48	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/24/2008 17:02	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2008 16:48	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW5473631 **Group No. 1110999**

MID-2-W-080917 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 MID-2
Collected:09/17/2008 12:05 by VH

Account Number: 10880

Submitted: 09/19/2008 11:00
Reported: 09/29/2008 at 11:29
Discard: 10/30/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HAYM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/24/2008 17:23	Patrick N Evans	1
05879	BTEX	SW-846 8020A	1	09/24/2008 17:23	Patrick N Evans	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/26/2008 17:12	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/24/2008 17:23	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2008 17:12	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW5473632 **Group No. 1110999**

EFF-W-080917 Grab Water
Facility# 90260 CETE
21995 Foothill-Hayward T0600100315 EFF
Collected:09/17/2008 12:00 by VH

Account Number: 10880

Submitted: 09/19/2008 11:00
Reported: 09/29/2008 at 11:29
Discard: 10/30/2008

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HAYEF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	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.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	09/24/2008 17:44	Patrick N Evans	1
05879	BTEX	SW-846 8020A	1	09/24/2008 17:44	Patrick N Evans	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	09/26/2008 17:35	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/24/2008 17:44	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/26/2008 17:35	Ginelle L Feister	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1110999
Reported: 09/29/08 at 11:29 AM

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 08267A54A	Sample number(s): 5473629-5473632							
TPH-GRO - Waters	N.D.	50.	ug/l	106	108	75-135	2	30
Benzene	N.D.	0.5	ug/l	114	111	86-119	3	30
Toluene	N.D.	0.5	ug/l	113	109	82-119	4	30
Ethylbenzene	N.D.	0.5	ug/l	112	107	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	115	110	82-120	4	30
Batch number: D082702AA	Sample number(s): 5473629-5473632							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86		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 Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08267A54A	Sample number(s): 5473629-5473632 UNSPK: P467977, P467978								
TPH-GRO - Waters	120		63-154						
Benzene	99		78-131						
Toluene	102		78-129						
Ethylbenzene	68*		75-133						
Total Xylenes	98		84-131						
Batch number: D082702AA	Sample number(s): 5473629-5473632 UNSPK: P475152								
Methyl Tertiary Butyl Ether	94	97	69-127	2	30				

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 - Waters
Batch number: 08267A54A

	Trifluorotoluene-F	Trifluorotoluene-P
5473629	77	90
5473630	84	90
5473631	87	91
5473632	95	92
Blank	84	90

*- 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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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Group Number: 1110999
Reported: 09/29/08 at 11:29 AM

Surrogate Quality Control

LCS	93	91
LCSD	98	92
MS	102	90
Limits:	63-135	69-129

Analysis Name: MTBE by GC/MS (water)
Batch number: D082702AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5473629	94	94	104	108
5473630	96	93	102	104
5473631	93	95	101	102
5473632	91	91	99	99
Blank	94	94	101	103
LCS	91	92	99	106
MS	91	92	99	105
MSD	94	94	101	109
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

Lancaster Laboratories

080708-21

For Lancaster Laboratories use only
Acct. #: 10880 Group # 1110999 Sample #: 5473629-32

SCR#:

Facility #: 9-0260
Site Address: 21995 Foothill Blvd, Hayward, California
Chevron PM: Aaron Costa Lead Consultant: Conestoga-Rovers& Associates
Consultant/Office: CRA 5900 Hollis St., Ste A, Emeryville, CA 94608
Consultant Prj. Mgr.: Charlotte Evans
Consultant Phone #: 510-420-3351 Fax #: 510-420-9170
Sampler: VARTAN HAMEDANIAN
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ Must meet lowest detection limits possible for 8260 compounds

Comments / Remarks

Email results to:
jschrupp@craworld.com and cevans@craworld.com
csanders@craworld.com

email edf to:
chevronedf@craworld.com

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX by 8020	TPHg by 8015	Cyanide (EPA 335.4)	pH (EPA 150.1)	13 Priority Pollutant Metals (EPA 200)	(An, Ar, Ba, Ca, Ch, Cu, Pb, M, Ni, Se, Si, Th, Z)	Total Phenols (EPA 420.1)	MTBE by 8260B					
INF	W		NA	08/09/17	12:15	No	X		5	X	X						X					VOAs with HCl
MID-1	W		NA	08/09/17	12:10	No	X		5	X	X						X					VOAS with HCl
MID-2	W		NA	08/09/17	12:05	No	X		5	X	X						X					VOAS with HCl
EFF	W		NA	08/09/17	12:00	No	X		5	X	X						X					VOAs with HCl

Turnaround Time Requested (TAT) (please circle)

24 hour	72 hour	48 hour
STD	4 day	5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	9-17-08	1645	Received by:	17SEP08	1645
Relinquished by:	9.18.08		Received by:	9.18.08	
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	9/18/08	1000
Temperature Upon Receipt 4.0-4.2 C°			Custody Seals Intact? Yes No		

3460 Rev. 11/10/05

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

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
C	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)	**l**	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

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.

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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.