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11:06 am, Jun 07, 2010

Alameda County
Environmental Health

Aaron CostaProject 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

April 7, 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, Calfornia 94608 Telephone: 510-420-0700 Facsimile: 510-420-9170

www.CRAworld.com

April 7, 2009

Reference No. 311915

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

Re:

Monthly Discharge Report – March 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 - MARCH 2009

REPORTING PERIOD ACTIVITIES

- CRA conducted routine operation and maintenance on March 3, March 4, March 6, March 9, March 13, March 16, and March 25, 2009.
- CRA conducted monthly compliance sampling on March 3 and March 16, 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.

REPORTING PERIOD DATA SUMMARY (2/25/09 TO 3/25/09)

Compliance Sampling Frequency	<u>Montnly</u>
Initial Totalizer Reading	822,654 gallons
Final Totalizer Reading	903,200 gallons
Discharged Volume	<u>80,546 gallons</u>
Average Discharge Flow Rate	2.00 gallons per minute
Maximum Discharge Flow Rate	3.79 gallons per minute
Discharge Violations or Exceedances	<u>None</u>

3 6 41 1



April 7, 2009

Reference No. 311915

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/10

Encl.

Table 1

Influent and Effluent Fuel Concentrations

Table 2

System Operational Data

Table 3

cc:

Effluent Compliance Results

Attachment A

Laboratory Analytical Reports

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 21995 Foothill Boulevard, Hayward, California

			In	ıfluent					Mi	idfluent 1			Midfluent 2 Effluent								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)	
0.6 /0.5 /0.5	24.000	2 000	6 400	4 200	6.100	02	D.T.A.	NTA	D.T.A.	NTA.	NT A	NIA							4.50	405	4 O F	< 0.F	415	405	F 15
06/25/07	34,000	2,000	6,400	1,300	6,100	92	NA 150	NA	NA 105	NA	NA	NA 105							< 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 08/17/07	57,000 65,000	1,800 2,800	7,200 10,000	1,600 1,500	7,000	51 74	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.5 < 0.5							< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.5 < 0.5	NA 7.2
		· · · · · · · · · · · · · · · · · · ·	7,900	1,500	7,500	56		< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50		< 0.5	< 0.5	< 1.5		7.2
08/22/07 08/29/07	44,000 43,000	2,100 2,000	7,200	1,400	6,600	53	< 50 < 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5							< 50	< 0.5 < 0.5	< 0.5	< 0.5	< 1.5	< 0.5 < 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	42,000 NS	NS	NS	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 NS
12/06/07	NS NS	NS	NS	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	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
8/1/2008 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	0.80	< 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
02/03/09	17,000	530	3,200	350	2,800	21	< 50	< 0.5	< 0.5	< 0.5	< 1.5	4	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.78
02/20/09	35,000	660	5,200	670	4,800	200	< 50	< 0.5	< 0.5	< 0.5	< 1.5	5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.97
03/03/09	12,000	350	1,800	130	2,400	12	66	1.6	0.5	< 0.5	< 1.5	8	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.59
03/16/09	27,000	630	3,500	410	4,100	26	78	6.6	1.6	< 0.5	< 1.5	7	< 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

 $\mu g/L$ = micrograms per liter

- 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. = 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 21995 Foothill Boulevard, Hayward, California

							TPHg			Benzene			MTBE		
Date	Hour	Flow Meter	Period	Period Operational	Cumulative	ТРНд	Period	Cumulative	Benzene	Period	Cumulative	MTBE	Period	Cumulative	1 1
	Meter	Reading	Volume	Flow Rate	Volume Discharged	Concentration	Removal ⁵	Removal	Concentration	Removal ⁵	Removal	Concentration	Removal ⁵	Removal	Notes
(mm/dd/yy)	(hours)	(gal)	(gal)	(gpm)	(gal)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	
, , , , , , , , , , , , , , , , , , , ,							•	,	1				<u> </u>	, ,	+
06/25/07 07/16/07	NA NA	211 211	0	0.00	0	34,000	0.0	0.0	2,000	0.00	0.00	92	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	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	10,947	1,525	0.13	10,736	,	0.7	4.2	,	0.02	0.16		0.00	0.00	
08/16/07	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	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	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 08/29/07	NA NA	22,800 24,810	4,100 2,010	1.42 0.28	22,589 24,599	43,000	1.5 0.7	9.3	2,000	0.07 0.03	0.39 0.42	53	0.00	0.01 0.01	
08/29/07	NA NA	24,810	1,890	0.28	26,489	43,000	0.7	10.1 10.7	2,000	0.03	0.42	33	0.00 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	44,300	4,600	3.19	44,089	,	1.6	16.9	,	0.07	0.72		0.00	0.02	+
10/04/07	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	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	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	117,400	19,900	2.30	117,189	17.000	7.0	41.3	2.122	0.38	1.98	/2	0.01	0.04	2
12/05/07	2.0	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	22.3 141.8	121,500 134,679	2,216 13,179	1.54 1.83	121,289 134,468		0.9 5.1	42.8 47.9		0.04 0.26	2.06 2.33		0.00 0.00	0.04 0.05	
12/11/07 12/18/07	304.9	149,033	14,355	1.42	148,822	31,000	3.7	51.6	1,800	0.26	2.54	37	0.00	0.05	
12/27/07	518.7	170,809	21,776	1.68	170,598	31,000	5.6	57.3	1,000	0.33	2.87	37	0.01	0.06	
01/02/08	648.5	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	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	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	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	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	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	268,200 312,800	14,015 44,600	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	0.09 0.09	
02/07/08	1399.6	341,772	28,972	2.87	341,561	65,000	15.7	111.8	2,400	0.58	5.47	21	0.01 0.01	0.10	2
02/26/08	1427.7	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	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	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	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	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	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	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	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	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	425,300	3,900	0.90	425,089		1.3	155.9		0.06	6.77		0.00	0.12	<u> </u>
09/03/08	2,218.9	436,999	11,699	1.02	436,788	31,000	3.0	158.9	970	0.09	6.87	33	0.00	0.13	
09/10/08	2,384.8	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	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	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	484,718	12,006	1.67	484,507	3 2 ,300	3.1	171.3	1,000	0.10	7.25		0.00	0.14	+
		· ·	-		· · · · · · · · · · · · · · · · · · ·										+
09/25/08	2,743.4	491,450	6,732	1.56	491,239	04.555	1.7	173.0	055	0.05	7.31		0.00	0.14	
10/01/08	2,880.0	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	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	521,800	16,974	1.68	521,589		3.7	179.6		0.14	7.55		0.00	0.15	7

Table 2: Groundwater Extraction and Treatment System

Operational Data

Former Chevron Station # 9-0260 21995 Foothill Boulevard, Hayward, California

							ТРНд			Benzene			MTBE		
Date	Hour	Flow Meter	Period	Period Operational	Cumulative	TPHg	Period	Cumulative	Benzene	Period	Cumulative	MTBE	Period	Cumulative	1
	Meter	Reading	Volume	Flow Rate	Volume Discharged	Concentration	Removal ⁵	Removal	Concentration	Removal ⁵	Removal	Concentration	Removal ⁵	Removal	Notes
(mm/dd/yy)	(hours)	(gal)	(gal)	(gpm)	(gal)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	(μg/L)	(pounds)	(pounds)	
10/16/08	3,249.5	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	1
10/20/08	3,342.5	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	764,570	17,799	1.55	764,359		2.5	249.3		0.10	9.52		0.00	0.20	
02/03/09	5,800.3	778,493	13,923	1.93	778,282	17,000	2.0	251.3	530.0	0.06	9.59	21.0	0.00	0.21	
02/12/09	5,813.7	795,800	17,307	1.34	795,589		2.5	253.8		0.08	9.66		0.00	0.21	
02/18/09	5,854.3	806,200	10,400	1.20	805,989	2.500	1.5	255.3	110.0	0.05	9.71	***	0.00	0.21	
02/20/09	5,891.1	814,275	8,075	2.80 1.16	814,064	3,500	0.2	255.5 255.7	660.0	0.04	9.75	200.0	0.01	0.22 0.24	
02/25/09 03/03/09	5,931.4 6,062.5	822,654 850,576	8,379 27,922	3.23	822,443 850,365	12,000	2.8	258.5	350.0	0.05	9.80 9.88	12.0	0.01	0.24	
03/04/09	6,075.0	853,991	3,415	2.37	853,780	12,000	0.3	258.9	330.0	0.03	9.89	12.0	0.00	0.24	
03/06/09	6,123.4	864,918	10,927	3.79	864,707		1.1	260.0		0.03	9.92		0.00	0.24	+
03/09/09	6.169.2	878.100	13.182	3.05	877,889		1.3	261.3		0.03	9.96	+	0.00	0.24	+
03/13/09	6,191.4	883,831	5,731	0.99	883,620		0.6	261.9		0.02	9.98		0.00	0.24	+
03/16/09	6,225.9	897,472	13,641	3.16	897,261	27,000	3.1	264.9	630.0	0.07	10.05	26.0	0.00	0.25	+
03/25/09	6,231.3	903,200	5,728	0.44	902,989	.,	1.3	266.2		0.03	10.08		0.00	0.25	
		1	Total Ex	ktracted Volume (gal):	902,989	Pounds Removed:		266.2	Pounds Removed:		10.08	Pounds Removed:		0.25	
				onal Flow Rate (gpm):	0.98	Gallons Removed:		43.7	Gallons Removed:		1.37	Gallons Removed:		0.04	

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) 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

= 0.74 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

 μ g/L = micrograms per liter

gal = gallon gpm = gallon per minute

lbs = pounds

mg #NAME?

g = grams Blank Cell = indicates not sampled

Table 3: Groundwater Extraction and Treatment System

Effluent Compliance Results Former Chevron Station # 9-0260 21995 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	
02/03/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.78	
02/20/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.97	
03/03/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.59	
03/16/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS	
Regulatory Limits (ug/L)	15,000	ND	ND	ND	ND	No Limit	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 exceeded. 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 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.
- $7. = Groundwater\ was\ pumped\ into\ a\ vacuum\ truck.\ No\ water\ was\ discharged\ to\ the\ sewer\ pending\ recipt\ of\ analytical\ results.$
- $\mu g/L$ = micrograms per liter
- NA = not analyzed
- ND = non detect
- $\boldsymbol{<}$ = 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



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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 1134663. Samples arrived at the laboratory on Thursday, March 05, 2009. The PO# for this group is 0015040460 and the release number is COSTA.

Client Description	<u>Lancaster Labs Number</u>
INF-W-090303 Grab Water	5613990
MID-1-W-090303 Grab Water	5613991
MID-2-W-090303 Grab Water	5613992
EFF-W-090303 Grab Water	5613993

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,

Christine Dulaney Senior Specialist



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Lancaster Laboratories Sample No. WW5613990

Group No. 1134663

Account Number: 10880

INF-W-090303 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 INF

Collected:03/03/2009 11:10 by DG

Submitted: 03/05/2009 09:25 ChevronTexaco

Reported: 03/12/2009 at 13:18 6001 Bollinger Canyon Rd L4310

Discard: 04/12/2009 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 N. CA water C6-C12					
01730	TPH-GRO N. CA water C6-C12	n.a.	12,000	500	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	350	5.0	ug/l	10
02164	Toluene	108-88-3	1,800	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	130	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	2,400	15	ug/l	10
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	12	2	ug/l	4

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	03/06/2009 19:49	Jennifer B Werner	10
05879	BTEX	SW-846 8020A	1	03/06/2009 19:49	Jennifer B Werner	10
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/06/2009 23:55	Lauren C Marzario	4
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2009 19:49	Jennifer B Werner	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/06/2009 23:55	Lauren C Marzario	4



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Lancaster Laboratories Sample No. WW5613991

Group No. 1134663

Account Number: 10880

MID-1-W-090303 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-1

Collected: 03/03/2009 11:07 by DG

Submitted: 03/05/2009 09:25 ChevronTexaco

Reported: 03/12/2009 at 13:18 6001 Bollinger Canyon Rd L4310

Discard: 04/12/2009 San Ramon CA 94583

HAYM1

				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.	66	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	1.6	0.5	ug/l	1
02164	Toluene	108-88-3	0.5	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	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.

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	03/06/2009 18:39	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/06/2009 18:39	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/07/2009 00:15	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2009 18:39	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2009 00:15	Lauren C Marzario	1



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Lancaster Laboratories Sample No. WW5613992

Group No. 1134663

Account Number: 10880

MID-2-W-090303 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-2

Collected: 03/03/2009 11:03 by DG

Submitted: 03/05/2009 09:25 ChevronTexaco

Reported: 03/12/2009 at 13:18 6001 Bollinger Canyon Rd L4310

Discard: 04/12/2009 San Ramon CA 94583

HAYM2

				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	03/06/2009 19:02	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/06/2009 19:02	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/07/2009 00:35	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2009 19:02	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2009 00:35	Lauren C Marzario	1



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Lancaster Laboratories Sample No. WW5613993

Group No. 1134663

EFF-W-090303 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 EFF Collected:03/03/2009 11:00 by DG

Submitted: 03/05/2009 09:25

Reported: 03/12/2009 at 13:18

Discard: 04/12/2009

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

HAYEF

				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	03/06/2009 19:25	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/06/2009 19:25	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/07/2009 00:55	Lauren C Marzario	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/06/2009 19:25	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/07/2009 00:55	Lauren C Marzario	1



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Page 1 of 2

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1134663

Reported: 03/12/09 at 01:18 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 method

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: 09065A54A	Sample n	umber(s):	5613990-56	13993				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	108	101	75-135	6	30
Benzene	N.D.	0.5	ug/l	102	106	80-120	3	30
Toluene	N.D.	0.5	uq/l	103	107	80-120	3	30
Ethylbenzene	N.D.	0.5	ug/l	105	109	80-120	3	30
Total Xylenes	N.D.	1.5	ug/l	108	110	80-120	2	30
Batch number: E090651AA	Sample n	umber(s):	5613990-56	13993				
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		78-117		

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 <u>%REC</u>	%REC	MS/MSD <u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 09065A54A TPH-GRO N. CA water C6-C12 Benzene Toluene Ethylbenzene Total Xylenes	Sample: 127 111 110 112 113	number(s)	: 5613990 63-154 70-152 78-129 75-133 67-155	-561399	3 UNSP	K: 5613991,	5613992		
Batch number: E090651AA Methyl Tertiary Butyl Ether	Sample: 95	number(s) 94	: 5613990 72-126	-561399 0	30 UNSP	K: P610270			

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: 09065A54A

	Trifluorotoluene-F	Trifluorotoluene-P
5613990	96	122
5613991	104	122
5613992	96	121
5613993	95	122
Blank	99	119

*- 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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Page 2 of 2

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1134663

Reported: 03/12/09 at 01:18 PM

Surrogate Quality Control

LCS 120 115 LCSD 107 122 MS100 124

63-135 69-129

Analysis Name: MTBE by GC/MS (water)

	per: E090651AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzer		
5613990	89	87	94	96		
5613991	92	94	95	92		
5613992	94	92	95	92		
5613993	93	93	94	90		
Blank	92	92	94	90		
LCS	89	88	94	98		
MS	90	87	94	97		
MSD	90	89	94	98		
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 Laboratorie
Lancaster Laboratorie

030409-04

For Lancaster Laboratories use only
Group # 1134063 Sample #5 613 990 - 93

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Consultant Phone #: 51	0-420-3	351		Fax#	: <u>510-</u> 4	1 20-9	170				erof			35.4)		tant M	Ca, Ch, Cu, I	Total Phenols (EPA	9					jschrupp@crawo		nd
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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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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 1136563. Samples arrived at the laboratory on Wednesday, March 18, 2009. The PO# for this group is 0015040460 and the release number is COSTA.

Client Description	<u>Lancaster Labs Number</u>
INF-W-090316 Grab Water	5624924
MID-1-W-090316 Grab Water	5624925
MID-2-W-090316 Grab Water	5624926
EFF-W-090316 Grab Water	5624927

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



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

Respectfully Submitted,

Dorothy M. Love Group Leader

Don't M. Sove



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Lancaster Laboratories Sample No. WW5624924

Group No. 1136563

Account Number: 10880

INF-W-090316 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 INF

Collected:03/16/2009 13:15 by MJ

Submitted: 03/18/2009 09:25

Reported: 03/25/2009 at 14:32

Discard: 04/25/2009

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FOOIN

				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.	27,000	500	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	630	5.0	ug/l	10
02164	Toluene	108-88-3	3,500	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	410	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	4,100	15	ug/l	10
02309	MTBE by GC/MS (water)					
02010	Methyl Tertiary Butyl Ether	1634-04-4	26	2	ug/l	4

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	03/24/2009 02:40	Jennifer B Werner	10
05879	BTEX	SW-846 8020A	1	03/24/2009 02:40	Jennifer B Werner	10
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/23/2009 00:38	Michael A Ziegler	4
01146	GC VOA Water Prep	SW-846 5030B	1	03/24/2009 02:40	Jennifer B Werner	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/23/2009 00:38	Michael A Ziegler	4



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Lancaster Laboratories Sample No. WW5624925

Group No. 1136563

Account Number: 10880

MID-1-W-090316 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-1

Collected: 03/16/2009 13:10

Submitted: 03/18/2009 09:25

ChevronTexaco Reported: 03/25/2009 at 14:32 6001 Bollinger Canyon Rd L4310

Discard: 04/25/2009 San Ramon CA 94583

FOOM1

				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.	78	50	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	6.6	0.5	ug/l	1
02164	Toluene	108-88-3	1.6	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	7	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	03/24/2009 03:04	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/24/2009 03:04	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/21/2009 00:22	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/24/2009 03:04	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2009 00:22	Michael A Ziegler	1



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Lancaster Laboratories Sample No. WW5624926

Group No. 1136563

Account Number: 10880

MID-2-W-090316 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-2

Collected: 03/16/2009 13:05

Submitted: 03/18/2009 09:25 ChevronTexaco

Reported: 03/25/2009 at 14:32 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Discard: 04/25/2009

FOOM2

				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	03/24/2009 03:27	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/24/2009 03:27	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/21/2009 00:47	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/24/2009 03:27	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2009 00:47	Michael A Ziegler	1



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Lancaster Laboratories Sample No. WW5624927

Group No. 1136563

EFF-W-090316 Grab Water Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 EFF

Collected: 03/16/2009 13:00 by MJ

Submitted: 03/18/2009 09:25

Reported: 03/25/2009 at 14:32

Discard: 04/25/2009

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Account Number: 10880

FOOEF

				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	03/24/2009 03:51	Jennifer B Werner	1
05879	BTEX	SW-846 8020A	1	03/24/2009 03:51	Jennifer B Werner	1
02309	MTBE by GC/MS (water)	SW-846 8260B	1	03/21/2009 01:10	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/24/2009 03:51	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2009 01:10	Michael A Ziegler	1



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Quality Control Summary

Client Name: ChevronTexaco Group Number: 1136563

Reported: 03/25/09 at 02:32 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 <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 09082A54A	Sample nu	mber(s):	5624924-56	24927				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Benzene	N.D.	0.5	ug/l	110	100	80-120	10	30
Toluene	N.D.	0.5	ug/l	115	105	80-120	9	30
Ethylbenzene	N.D.	0.5	ug/l	110	105	80-120	5	30
Total Xylenes	N.D.	1.5	ug/l	112	105	80-120	6	30
Batch number: D090793AA	Sample nu	mber(s):	5624925-56	24927				
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	81		78-117		
Batch number: Z090813AA	Sample nu	mber(s):	5624924					
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		78-117		

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 <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD Max
Batch number: 09082A54A TPH-GRO N. CA water C6-C12 Benzene Toluene Ethylbenzene Total Xylenes	Sample 127 110 110 115 113	number(s)	: 5624924 63-154 70-152 78-129 75-133 67-155	-562492	7 UNSPI	K: P626156			
Batch number: D090793AA Methyl Tertiary Butyl Ether	Sample 82	number(s) 87	: 5624925 72-126	-562492 7	7 UNSPI 30	K: P622779			
Batch number: Z090813AA Methyl Tertiary Butyl Ether	Sample 101	number(s) 95	: 5624924 72-126	UNSPK:	P62532	29			

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: 09082A54A

Trifluorotoluene-F Trifluorotoluene-P

*- 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.



78-113

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Page 2 of 2

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1136563

77-113

Reported: 03/25/09 at 02:32 PM

Surrogate Quality Control

80-113

		burrogate Q	darrey concret	
5624924	106	117		
5624925	111	117		
5624926	105	115		
5624927	107	116		
Blank	105	114		
LCS	108	117		
LCSD	105	117		
MS	104	115		
Limits:	63-135	69-129		
Analysis N Batch numb	Name: MTBE by GC/MS (water) Der: D090793AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5624925	82	89	83	80
5624926	83	86	83	80
5624927	85	86	85	81
Blank	83	87	87	84
LCS	85	91	87	91
MS	82	85	85	88
MSD	83	84	86	91
Limits:	80-116	77-113	80-113	78-113
	Name: MTBE by GC/MS (water) Der: Z090813AA			
Datoli Ilana	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5624924	85	86	101	88
Blank	87	90	97	87
LCS	86	88	97	90
MS	86	89	97	91
MSD	87	89	98	91

Limits:

80-116

^{*-} 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

412	Lancaster Laboratories
7	Laboratories

031709-05

Acct. #: 1088C

For Lancaster Laboratories use only

Group # 11316563 Sample #: 5624924-27

Ti Edbord		,											A	\nal	yses	Re	ques	sted				SCR#:		
Facility #: 9-0260 M1	ın				. <u></u>			-	1					Pres	erva	ation	Co	des				Preserva		
Site Address: 21995 Foothill Blvd, Hayward, California										-					(2,1		+ +					N = HNO3	T = Thios B = NaO O = Othe	Н
Chevron PM: <u>Aaron Co</u>	sta	Lead Cor	sultant	: Conestoga-Rove	ers& Associa	ates			ers	l		İ		8	E,	ļ					ı	☐ Must meet lowest detection limits		
Consultant/Office: <u>CRA</u>	5900 H	ollis St., S	te A <u>, E</u>	meryville, CA 946	<u>08</u>				Containers					EPA 2	€, Se,	_	ļļ	İ				possible for 82	260 compo	
Consultant Prj. Mgr.: Charlotte Evans									[2		}			tals (Pb, M, Ni,	420.1]]				Ì	Comments / Re		
Consultant Phone #: 51	0-420-3	351		Fax #: 510-420-9	9170	 .	l		r of	İ	1	5.4)		i Me	ਡੋ	PA	_			İ	١	Email results to jschrupp@craw	•	and
Sampler: MARK .	10k22	رره			··			Composite	Total Number	BTEX by 8020	55	Cyanide (EPA 335.4)	0.1	allo	(An, Ar, Be, Ca, Ch,	ols (I	E by 8260B				l	cevans@crawo	rld.com	
Service Order #:			□No	n SAR:					Z		å å) <u>(ii)</u>	pH (EPA 150.1)	13 Prointy Pollutant Metals (EPA 200)		Total Phenols (EPA 420.1)				}		csanders@craw	rorld.com	
Field Point Name	Matrix	Repeat	Top	Year Month Day	Time	New Field Pt	Grab	E	Tota	Ĕ	TPHg by 8015	, and	巴玉	3 Pro	An, Ar,	otal Isa	MTBE			1		email edf to: chevronedf@cra	aworid co	m ·
INF_	W	Sample		19 / 3 / 16		No	x	Ť	5	x							X	_	_	1	┪	VOAs with HO	·	···
MID-1	W		NA	09/3/14	13:10	No	Х		5	х	+						X					VOAS with HO		
MID-2	W		NA	09/3/16	13:05	No	х		5	Х	X						X					VOAS with H	<u>IC1</u>	:
EFF	W		NA	07/3/16	13:00	No	X	<u> </u>	5_	X	X				ļ	ļ	X		_	\dashv	4	VOAs with HO	<u> </u>	
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Data Package Options (please circle if required)				Relinquished	d by:				**** ***	Date Time				e	Received by:						Date	Time		
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Type VI (Raw Data)	Coelt De	liverable no	i neede	a .								3 6369	0925											
WIP (RWQCB) Disk					Temperature Upon Receipt C°							1	Custody Seals Intact? Yes No											
CIGN								_															1	L

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.

Inorganic Qualifiers

- 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:

Organi	ic (Qua	lifiers

A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" control="" due="" duplicate="" estimated="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used<="" within="" ≥idl=""></crdl,>
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined 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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