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Alameda County Environmental Health

Groundwater Monitoring Report for the Quarterly Reporting Period from April 1 through June 30, 2008 Former Cox Cadillac Property 230 Bay Place Oakland, California (ACEH Fuel Leak Case Number RO0000148 and Geotracker Global ID Number T0600100193)

> July 31, 2008 001-09171-17

Prepared for: Bond CC Oakland, LLC 350 W. Hubbard Street, Suite 4560 Chicago, Illinois 60610



ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

July 31, 2008

001-09171-17

Mr. Paresh Khatri Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: Groundwater Monitoring Report for the Quarterly Reporting Period from April 1 through June 30, 2008, Former Cox Cadillac Property, 230 Bay Place, Oakland, California (ACEH Fuel Leak Case Number RO0000148 and Geotracker Global ID Number T0600100193)

Dear Mr. Khatri:

LFR Inc. has prepared this quarterly groundwater monitoring report, on behalf of Bond CC Oakland, LLC, to summarize the activities conducted during the monitoring period from April 1 through June 30, 2008 at the Former Cox Cadillac Property, located at 230 Bay Place, Oakland, California ("the Site").

The periodic groundwater monitoring was performed in accordance with the Revised Corrective Action Plan (RCAP), dated June 4, 2004. The RCAP superseded the Corrective Action Plan originally submitted to Alameda County Environmental Health (ACEH) on April 8, 2004. The purpose of the RCAP was to summarize the results of the remedial investigations and the interim remedial measures conducted to date at the Site and, based on the results of these site activities, to propose a corrective action for the remediation of soil and groundwater quality at the Site. ACEH subsequently approved the proposed interim remediation work plan, described in the RCAP, in a letter dated October 6, 2004.

We are planning to conduct the groundwater monitoring event for the monitoring period from July 1 through September 30, 2008 in August 2008. The report of this monitoring event will be submitted on or before October 31, 2008.

510.652.4500 m 510.652.2246 f

www.lfr.com



If you have any questions or comments, please contact me at (650) 469-7224 or Ron at (510) 652-4500.

Sincerely,

1.11 1

Charles H. Pardini, P.G. Principal Geologist Operations Manager-Los Altos

Ron Goloubow Senior Associate Geologist

Enclosure

cc: Robert Bond - Bond CC Oakland, LLC Alan Lee - Bond CC Oakland, LLC



July 31, 2008

Mr. Paresh Khatri Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: Groundwater Monitoring Report for the Quarterly Reporting Period from April 1 through June 30, 2008, Former Cox Cadillac Property, 230 Bay Place, Oakland, California (ACEH Fuel Leak Case Number RO0000148 and Geotracker Global ID Number T0600100193)

Dear Mr. Khatri:

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 ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or comments, please call me at (312) 853-0700 or Chuck Pardini of LFR Inc. at (650) 469-7224.

Sincerely,

Bond CC Oakland, LLC

Robert Bond Authorized Signatory

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## CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an LFR Inc. California Professional Geologist.

Charles H. Pardini Principal Geologist California Professional Geologist (6444)

(I Date OFCA

## **1.0 INTRODUCTION**

## **1.1** Purpose of the Report

LFR Inc. (LFR) has prepared this quarterly groundwater monitoring report, on behalf of Bond CC Oakland, LLC, to summarize the activities conducted during the monitoring period from April 1 through June 30, 2008 ("the reporting quarter") at the Former Cox Cadillac Property located at 230 Bay Place, Oakland, California ("the Site"; Alameda County Environmental Health (ACEH) Fuel Leak Case Number RO0000148 and Geotracker Global ID Number T0600100193).

The periodic groundwater monitoring was performed in accordance with the Revised Corrective Action Plan (RCAP), dated June 4, 2004. The RCAP superseded the Corrective Action Plan originally submitted to ACEH on April 8, 2004. The purpose of the RCAP was to summarize the results of the remedial investigations and the interim remedial measures conducted to date at the Site and, based on the results of these site activities, to propose a corrective action for the remediation of soil and groundwater quality at the Site. ACEH subsequently approved the proposed interim remediation work plan, described in the RCAP, in a letter dated October 6, 2004.

## 1.2 Background

The Site was formerly occupied by Cox Cadillac and was used for automobile sales and service. A portion of the facility was formerly used as a sales showroom and offices, while the remainder was formerly used for automobile storage, bodywork, painting, and indoor service. Currently, the Site has been redeveloped into a Whole Foods Market; construction activities were completed and the store opened in September 2007.

The site vicinity is primarily residential, commercial, and light-industrial facilities, mainly automobile dealerships and service stations. Single-family and multi-unit residential buildings occupy the property to the northeast and southeast of the Site. The property to the northwest of the Site is occupied by a church and associated school. An automobile dealership, auto repair shops, and a service station occupy the properties to the south and west of the Site across Bay Place. The surface topography in the site vicinity slopes gently to the west from Vernon Street to Bay Place.

Total petroleum hydrocarbons (TPH) as gasoline (TPHg); TPH as diesel (TPHd); TPH as motor oil (TPHmo); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tertiary-butyl ether (MTBE; collectively referred to as chemicals of potential concern [COPCs]) have been detected in soil and groundwater samples collected at the Site. A partial summary of the analytical results of groundwater samples previously collected at the Site is included as Appendix A.

The RCAP presented a description and evaluation of the corrective actions that were implemented to reduce the concentrations of the COPCs that have been detected in the soil and groundwater at the Site. The interim remedial actions described in the RCAP and the "Addendum to the Revised Corrective Action Plan, Former Cox Cadillac Property, 230 Bay Place, Oakland, California," dated June 17, 2004, were approved by ACEH in a letter dated October 6, 2004. The proposed interim remedial action for the Site was to conduct an excavation to remove the source for the affected groundwater, and to conduct periodic groundwater monitoring and reporting to assess the effectiveness of the removal action.

## 1.3 Excavation and Disposal of Soil

During the period from September 16 to December 16, 2005, LFR supervised the excavation of affected soil in the vicinity of the former gasoline and waste oil underground storage tanks (USTs) that contained concentrations of target analytes above the remediation goals. A total of approximately 5,000 tons of TPH-affected soil was excavated from this area. The soil excavated from the TPH-affected area was temporarily stockpiled and subsequently disposed of as Class 2 waste material at Allied Waste's Forward Landfill located in Manteca, California. In addition, approximately 250 tons of brick and concrete debris removed from the area of excavation were disposed of at Allied Waste's Keller Canyon Landfill located in Pittsburg, California. In addition to the 5,000 tons of petroleum-affected soil removed from the Site, approximately 245,000 gallons of potentially petroleum-affected water were removed from the Site after the excavation filled with water.

A detailed description of the activities associated with this excavation work and the findings of the confirmation soil sampling are included in LFR's report entitled "Results of the Implementation of the Revised Corrective Action Plan, Former Cox Cadillac Site, 230 Bay Place, Oakland, California," dated August 3, 2007.

## **1.4** Installation of Groundwater Monitoring Wells

LFR installed five new groundwater monitoring wells at locations illustrated on Figure 2 between August 28 and September 20, 2007. The total depth of each well ranges from approximately 13 feet below ground surface (bgs) at well LF-5 to approximately 23 feet bgs at well LF-1. Each monitoring well was constructed using 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) well casing and machine-slotted Schedule 40 PVC well screens with a 0.010-inch slot size. To comply with a request from ACEH, the well screen intervals were limited to approximately 4 feet. Details regarding the installation of the groundwater monitoring wells were included in the "Groundwater Monitoring Report for the Quarterly Reporting Period from October 1 through December 31, 2007," dated January 31, 2008 (LFR 2008a).

## 2.0 QUARTERLY GROUNDWATER MONITORING REPORT

The following activities were performed during this reporting quarter:

- Groundwater samples were collected from the wells on May 6, 2008.
- Water levels were measured on May 6, 2008.

The data generated during the above activities were evaluated and are presented in this report.

## 2.1 Groundwater Elevation and Gradient

Depth to groundwater was measured in the five groundwater monitoring wells on May 6, 2008. Depth to groundwater was measured on May 6. The groundwater elevation in each well was calculated using the surveyed top of casing elevation; results are summarized in Table 1. Groundwater elevation data and contours are presented on Figure 2. The depth to groundwater in the wells measured on May 6, 2008 ranged from 2.15 to 5.61 feet bgs in the five wells.

The groundwater elevation contours indicate that the groundwater flow direction beneath the Site was generally toward the south–southwest on May 6, 2008, with a horizontal groundwater gradient of approximately 0.058 foot per foot measured between wells LF-5 and LF-3. This gradient and flow direction is generally consistent with the historical water level contour maps previously prepared for this Site by others. However, it appears that shallow groundwater flows more predominantly to the portion of the Site in which the large excavation was conducted. Additional groundwater elevation monitoring events will be conducted to assess whether the local groundwater flow direction varies seasonally.

## 2.2 Groundwater Sampling

Groundwater samples were collected from the five monitoring wells on May 6, 2008, using low-flow groundwater sampling techniques. The intake of the low-flow pump was placed in the middle of the screened interval and purged continuously until the basic groundwater parameters stabilized, or until the well had been purged for approximately 30 minutes or two gallons. Field parameters were recorded on log sheets and are summarized in Table 2.

Groundwater samples were collected directly from the hose of the pump and conveyed into laboratory-supplied sample containers. The containers were labeled with the well identification number, the time and date of collection, the analysis requested, and the initials of the sampler. The samples were stored in an ice-chilled cooler and maintained under strict chain-of-custody protocols as they were submitted to the analytical laboratory. The groundwater samples were submitted to Curtis & Tompkins, Ltd., a state-certified laboratory located in Berkeley, California, and analyzed for TPHg, TPHd, and TPHmo using U.S. Environmental Protection Agency (EPA) test method 8015, modified. The samples were also analyzed for BTEX and fuel oxygenates using EPA test method 8260B. Analytical results of groundwater samples are presented in Table 3, and copies of the laboratory data sheets and chain-of-custody documents are presented in Appendix B.

## 2.2.1 Analytical Results for Groundwater Samples

Analytical results for the groundwater samples collected during this monitoring event are summarized in Table 3 and presented on Figure 3. Historical groundwater-quality results are presented in Appendix A, and the locations of the former wells on the Site are shown on Figure 2. As indicated in Table 3 and on Figure 3, the removal actions that took place at the Site have significantly improved groundwater quality in the vicinity of wells LF-1, LF-4, and LF-5. Concentrations of TPHg and BTEX were not present above the laboratory reporting limits in samples collected from each well. These analytical results are consistent with the results of samples collected at the Site in October 2007 (LFR 2008a) and February 2008 (LFR 2008b). The analytical results for groundwater samples collected at the Site during this reporting quarter have been compared to the Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for sites where groundwater is and is not considered a source of drinking water (RWQCB 2007).

Concentrations of petroleum hydrocarbons and BTEX detected in samples collected from former well MW-1 (located near the former waste oil UST location), before it was abandoned during the soil remediation activities, were significantly elevated (Appendix A). Notably, during this groundwater monitoring event, TPHg, TPHd, and TPHmo were not present above analytical detection limits in the groundwater sample collected from well LF-1 (located near former well MW-1).

Concentrations of MTBE in groundwater samples collected during this reporting quarter ranged from below laboratory reporting limits in the samples collected from wells LF-1, to 16,000 micrograms per liter ( $\mu$ g/L) in the sample collected from well LF-3. In samples collected from wells LF-2, LF-3, and LF-4, MTBE was detected at concentrations above its ESL of 5.0  $\mu$ g/L for sites where groundwater is considered a source of drinking water. However, only the sample collected from well LF-3 contained MTBE at a concentration above its ESL for sites where groundwater is not considered a source of drinking water (1,800  $\mu$ g/L). These analytical results are consistent with the results of samples collected at the Site in October 2007 and February 2008.

TPHd was detected in samples collected from wells LF-2, LF-3, and LF-4 at 1,500  $\mu$ g/L, 320  $\mu$ g/L, and 95/120 (duplicate sample)  $\mu$ g/L, respectively. These concentrations are near or above the ESL of 100  $\mu$ g/L for TPHd for sites where groundwater is considered a source of drinking water. Each of these concentrations is

below the ESL of 2,500  $\mu$ g/L for TPHd for sites where groundwater is not considered a source of drinking water. The laboratory reported that the sample did not exhibit a chromatographic pattern consistent with their standard for TPHd. The laboratory has provided this comment for previous samples collected from this well and indicates that the TPHd is degraded and not indicative of a recent release. This comment is consistent with the comment for the samples collected at the Site in October 2007 and February 2008.

TPHmo was detected at 840  $\mu$ g/L in well LF-2, which is above the ESL of 100  $\mu$ g/L for TPHmo for sites where groundwater is considered a source of drinking water. This concentration is below the ESL of 2,500  $\mu$ g/L for TPHmo for sites where groundwater is not considered a source of drinking water. All other samples, including the duplicate sample at well LF-4, had concentrations below the ESL for sites where groundwater is considered a source of drinking water.

Groundwater quality in the vicinity of monitoring wells LF-2 and LF-3 indicates the presence of petroleum hydrocarbons at significant concentrations (Table 3 and Figure 3). Because these wells are located farther downgradient (south and southwest) from the former UST locations, the effect of the removal actions may not be observed as quickly as the effect observed closer to the former UST locations. The analytical results of grab groundwater samples collected from soil borings SB-8, UB-1, and SBA, collected in 2004 and 2005 (see Figure 7 in Appendix A), indicate that the lateral extent of shallow groundwater affected by MTBE is limited to the area near well LF3 and former wells MW-2 and TW-7. Petroleum hydrocarbon concentrations at the Site will be monitored during future monitoring events.

## 3.0 SCHEDULE

The next on-site groundwater monitoring event will take place in August 2008. In addition to the normal suite of analytes, groundwater samples will be submitted for total dissolved solids (TDS) analysis. LFR staff will also qualitatively assess the likely yield from the shallow water-yielding interval during well purging. The TDS analysis and the qualitative assessment of yield are being conducted to assess the shallow groundwater's designation as a possible source of drinking water. The next quarterly groundwater monitoring report will be submitted to ACEH on October 31, 2008.

## 4.0 **REFERENCES**

- LFR Inc. (LFR). 2007. Results of the Implementation of the Revised Corrective Action Plan, Former Cox Cadillac Property, 230 Bay Place, Oakland, California. August 3.
  - ------. 2008a. Groundwater Monitoring Report for the Quarterly Reporting Period from October 1 through December 31, 2007, Former Cox Cadillac Property,

230 Bay Place, Oakland, California (Fuel Leak Case No. RO0000148). January 31.

 2008b. Groundwater Monitoring Report for the Quarterly Reporting Period from January 1 through March 31, 2008, Former Cox Cadillac Property, 230 Bay Place, Oakland, California (Fuel Leak Case No. RO0000148). April 30.

LFR Levine Fricke (LFR). 2004a. Revised Corrective Action Plan, Former Cox Cadillac Property, 230 Bay Place, Oakland, California. June 4.

------. 2004b. Addendum to the Revised Corrective Action Plan, Former Cox Cadillac Property, 230 Bay Place, Oakland, California. June 17.

Regional Water Quality Control Board (RWQCB). 2007. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final – November 2007); Environmental Screening Levels ("ESLs"). Technical Document. November.

## Table 1Groundwater ElevationsFormer Cox Cadillac Property230 Bay Place, Oakland, California

Loostion ID	Data Callestad	Top-of-Casing	Depth to	Groundwater
Location ID	Date Collected	Elevation <sup>(1)</sup>	Groundwater <sup>(2)</sup>	Elevation <sup>(1)</sup>
LF-1	10/8/2007	13.40	2.56	10.84
	2/26/2008	13.40	2.33	11.07
	5/6/2008	13.40	2.15	11.25
	10/0/007	12.12	2 71	0.42
LF-2	10/8/2007	13.13	3./1	9.42
	2/26/2008	13.13	3.78	9.35
	5/6/2008	13.13	4.05	9.08
LF-3	10/8/2007	13.15	5.24	7.91
21.0	2/26/2008	13.15	5.08	8.07
	5/6/2008	13.15	5.11	8.04
	10/8/2007	12 22	5 74	7 50
L <b>Г-</b> 4	10/8/2007	15.52	5.74	7.30
	2/26/2008	13.32	5.55	7.77
	5/6/2008	13.32	5.61	7.71
LF-5	10/8/2007	15.92	3.46	12.46
	2/26/2008	15.92	2.97	12.95
	5/6/2008	15.92	2.38	13.54

#### Notes:

<sup>(1)</sup> Top-of-casing and groundwater elevation in North America Vertical Datum 1988

<sup>(2)</sup> Depth to water measured in feet below top of casing

# Table 2Results of Field Parametersin Groundwater SamplesFormer Cox Cadillac Property230 Bay Place, Oakland, California

Location ID	Date Collected	Volume Purged (gallons)	Temperature (Celsius)	Dissolved Oxygen (mg/l)	pH (units)	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)
LF-1	10/8/2007	5.25	18.36	5.82	6.70	10.700	1.65	
	2/6/2008	1.75	17.15	2.74	6.79	13.279	15.2	57.10
	5/6/2008	5.50	16.95	0.72	6.59	13.187		170.30
LF-2	10/8/2007	0.75	22.57	0.28	7.18	1.983	1.33	
	2/6/2008	2.00	17.73	1.35	6.77	2.580	1.50	-113.20
	5/6/2008	2.00	20.16	0.19	6.49	3.378		-137.60
LF-3	10/8/2007	5.00	20.52	6.07	6.51	2.169	3.92	
	2/6/2008	1.00	16.64	2.60	6.57	2.047	2.40	158.00
	5/6/2008	2.00	18.82	0.19	6.30	2.338		37.10
LF-4	10/8/2007	0.75	20.00	0.62	6.81	1.465	0.75	
	2/6/2008	2.00	15.88	1.06	6.96	1.368	1.40	136.20
	5/6/2008	1.50	18.81	0.20	6.83	1.443		13.00
LF-5	10/8/2007	1.25	20.55	3.36	7.37	1.014	25.50	
	2/6/2008	1.50	15.02	5.61	7.58	1.346	30.40	126.20
	5/6/2008	1.50	18.98	1.73	7.73	1.206		119.50

#### Notes:

Parameters measured using field instruments; data were collected by LFR Inc.

mg/l - milligrams per liter

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbidity units

ORP = oxidation-reducing portential

mV = millivolts

### Table 3 Analytical Results for Volatile Organic Compounds in Groundwater Samples Former Cox Cadillac Property 230 Bay Place, Oakland, California

Location	Data Callected	Donzono	Toluono	Ethyl-	Total	TDUmo		трца	MATRE
ID	Date Collected	Delizene	Toluelle	benzene	Xylenes	тгппо	IFIIg	тгпа	MIDE
LF-1	10/8/2007	< 0.50	< 0.50	< 0.50	< 0.50	< 300	<250	< 50	< 0.50
	2/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	55Y	< 2.0
	5/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	< 50	< 0.50
LF-2	10/8/2007	<2.5	<2.5	<2.5	<2.5	900	<250	1,900Y	280
Duplicate	10/8/2007	< 0.50	< 0.50	< 0.50	< 0.50	1,100	<130	2,100Y	250
-	2/6/2008	<2.5	<2.5	<2.5	<2.5	880	< 50	1,800Y	260C
Duplicate	2/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	800	< 50	1,700Y	270C
Ĩ	5/6/2008	< 0.50	0.54	< 0.50	0.63C	840	52Y	1,500Y	360
LF-3	10/8/2007	<50	< 50	< 50	< 50	< 300	< 5,000	350Y	12,000
	2/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	290Y	15,000C
	5/6/2008	< 0.50	0.70C	< 0.50	0.94	< 300	58Y	320Y	16,000
LF-4	10/8/2007	<1.3	<1.3	<1.3	<1.3	< 300	<130	220Y	230
	2/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	130Y	77C
	5/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	95Y	130
Duplicate	5/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	120Y	59
LF-5	10/8/2007	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	200Y	< 0.50
	2/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	51Y	< 2.0
	5/6/2008	< 0.50	< 0.50	< 0.50	< 0.50	< 300	< 50	91Y	28
Screening (	Criteria								
ESL at a pro	operty where								
groundwate	r is considered a	1.0	40	30	13	100	100	100	5.0
source of dr	inking water								
ESL at a pro	operty where								
groundwate	r is not considered	540	400	300	5,300	2,500	5,000	2,500	1,800
a source of	drinking water								

concentrations in micrograms per liter

#### Notes:

Bold font denotes analytical results are above ESLs where groundwater is not a source of drinking water.

Samples were analyzed by Curtis & Tompkins, Ltd., using EPA Test Methods 8260B and 8015B.

Duplicate = duplicate sample

TPHd = total petroleum hydrocarbons as diesel

TPHg = total petroleum hydrocarbons as gasoline

TPHmo = total petroleum hydrocarbons as motor oil

MTBE = methyl tertiary-butyl ether

Y = Sample exhibits chromotographic pattern that does not resemble standard.

C = Presence confirmed, but relative percent difference between columns exceeds 40%.

<2.5 = less than laboratory analytical reporting limits

ESL denotes environmental screening criteria established by the Regional Water Quality Control Board in November 2007 to address environmental protection. Under most circumstances, the presence of a chemical in soil or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health. ESLs can be obtained from http://www.swrcb.ca.gov/rwqcb2/ESL.htm.





L:Design\001\09171\17\003\DWG\Site Plan with GWE and Chem Concentrations May 2008.dwg Jul 14,2008-12:00pm

#### **EXPLANATION:**





## Site Map and Shallow **Groundwater Elevation Contour Map** May 6, 2008

Former Cox Cadillac, 230 Bay Place, Oakland, California



Figure 2



I:\Design\001\09171\17\003\DWG\Site Plan with TPH VOCs Shallow GW May 2008 dwg Jul 23,2008-11:41am

#### **EXPLANATION:**

	Approximate Limit of Excavation
	performed in 2005/2006
[]]]	Approximate Location of Former Gasoline UST
(111)	Approximate Location of Former Waste Oil UST
۲	Groundwater Monitoring Well
UST	Underground Storage Tank
LF MtBE	
TPHd TPHg	95Y 129Y <50 <50
TPHmo Total Xylenes	<300 <300 <0.50 <0.50
Ethylbenzene Toluene	<0.50 < 0.50 <0.50 < 0.50
Benzene	<u>&lt;0.50</u> <0.50
	Duplicate Sample
	micrograms per liter (µg/L)
MtBE	methyl tertiary-butyl ether
TPHd	Total petroleum hydrocarbons as diesel
TPHg TPHmo	lotal petroleum hydrocarbons as gas Total petroleum hydrocarbons as motor oil
Ŷ	Sample exhibits chromotographic pattern which does not resemble standard
С	Presence confirmed but relative percent difference between columns exceeds 40%
	Ń

**Total Petroleum Hydrocarbon and Volatile Organic Compound Concentrations** in Shallow Groundwater - May 6, 2008

60 FEET

Former Cox Cadillac, 230 Bay Place, Oakland, California



Figure 3

APPENDIX A

Historical Analytical Data in Groundwater

		1
<b>a</b>	/ m.s	
Concentration	$(11\alpha/l)$	
Concontinuit	( 44, 54, 14, 14, 14, 14, 14, 14, 14, 14, 14, 1	

Weil Number         Sample Date         Benzene         Tolkene         benzene         Tyles         MTBE         1,2-DCA         EDB         TAME         TBA         DIPE         ETBE         1,1-DCA         I           MW-1         03/03/3         8,500         7,500         4,400         15,000         110,000         -         350         -	solved	Dissolve											Total	Ethyl-					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Lead Ethano	Lead	1,1-DCA	ETBE	DIPE	TBA	TAME	EDB	1,2-DCA	ITBE		TPH-g	Xylenes	benzene	Toluene	Benzene	5	Sample Date	Well Number
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				· · ·					350			110,000	15,000	4,400	7,500	8,500		03/03/93	MW-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				<u> </u>				80	350			74,000	11,000	4,000	4,800	6,100		10/13/93	MW-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			<1.0			÷			130			110,000	16,000	2,800	11,000	18,000		12/22/94	MW-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	71	71	<5.0						130			25,000	4,700	2,200	1,800	3,700		03/24/95	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	14	<2.0	-					110			28,000	7,500	3,200	2,100	5,300		06/29/95	MW-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16	16	<1.0						98			43,000	7,400	3,800	2,200	5,600		09/29/95	MW-1
MW-1       01/12/99       2,600       970       2,900       5,700       39,000       800	74	74	<1.0						96	**		46,000	7,700	3,400	3,000	4,800		02/23/96	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 <b>7</b>	4.4	-1.0							800		39,000	5,700	2,900	970	2,600		01/12/99	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								1		520		29.000	4,000	<50	500	1,500		04/13/99	<b>MW-1</b>
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					_					250		31,000	3,900	1,600	870	1,900		07/07/99	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										250 a		32.000	4,400	1,800	910	2,100		10/06/99	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	** ,**		-			_		~~		<5.0 a		2,400	12	63	3.9	52		01/11/00	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										<10 a		32,000	7.300	2,600	3,200	4,300		04/06/01	MW-1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 7						<i></i>	~-		<25 a		24,000	6,200	2,500	1,300	2,300		07/25/01	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										<100 a		33.000	3,600	2,500	890	2.100		11/20/01	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				-					-**	350		28.000	5,900	2,500	1,400	2,400		01/23/02	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				· ·						.800		39.000	6.300	2,700	2,400	3,200		04/26/02	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										<500		26.000	4,700	2,500	1.300	2,300		07/25/02	MW-1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				~50	~50	<100	<50	<50	<\$0	<10		42.000	8.600	4,300	1.300	2,800		10/22/02	MW-1
MW-1       10/22/03       b       2,000       800       1,600       2,800       22,000       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20       <20 <td></td> <td>~~</td> <td></td> <td>~100</td> <td>~100</td> <td>~100</td> <td>&lt;100</td> <td>&lt;100</td> <td>&lt;100</td> <td>&lt;70</td> <td></td> <td>20,000</td> <td>3:100</td> <td>2.100</td> <td>660</td> <td>1.600</td> <td></td> <td>01/27/03</td> <td>MW-1</td>		~~		~100	~100	~100	<100	<100	<100	<70		20,000	3:100	2.100	660	1.600		01/27/03	MW-1
MW-1       01/30/04       2,700       1,400       2,900       5,800       32,000       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <20			-	~100	~1.00 ~án	~200	~70	<70	<20 *	<20		22.800	2,800	1.600	800	2.000	Ъ	10/22/03	MW-1
MW-2       01/12/99       1.5       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50       <0.50 <th< td=""><td>- &lt;1,004</td><td>-</td><td></td><td>&lt;2U &lt;25</td><td>~40</td><td>~250</td><td>-24</td><td>~20</td><td>&lt;25</td><td>-20 &lt;75</td><td></td><td>32,000</td><td>5,800</td><td>2,900</td><td>1,400</td><td>2.700</td><td>-</td><td>01/30/04</td><td>MW-1</td></th<>	- <1,004	-		<2U <25	~40	~250	-24	~20	<25	-20 <75		32,000	5,800	2,900	1,400	2.700	-	01/30/04	MW-1
MW-2       01/12/99       1.5       <0.50       <0.50       <50       2,900	<1,30	÷-		~25	$\sim 0$	~2.90	~2.9	-herd	~~J	-		0,000	<b>P3</b> 000	<i>x</i> ,	-9.00				
MW-2       01/12/99       1.5       <0.50       <0.50       <0.50       <0.50       2,900																			
MW-2       04/13/99       0.76       <0.50       <0.50       <0.50       33800				-						,900		<50	<0.50	<0.50	_ <0.50	1.5		01/12/99	MW-2
MW-2       07/07/99       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <25       <26       <26       <27       <28       <28       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <28       <29       <28       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <29       <20       <20		·	. ــد			~~			**	,800		<50	< 0.50	<0.50	<0.50	0.76		04/13/99	MW-2
MW-2       10/06/99       73       <25       <25       <25       2,800       300       a </td <td></td> <td></td> <td></td> <td>÷-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>,000 a</td> <td></td> <td>&lt;2,500</td> <td>&lt;25</td> <td>&lt;25</td> <td>&lt;25</td> <td>&lt;25</td> <td></td> <td>07/07/99</td> <td>MW-2</td>				÷-			-			,000 a		<2,500	<25	<25	<25	<25		07/07/99	MW-2
MW-2       01/11/00       890       <100       <100       11,000       8,400       a			<u>.</u>	~~	·					300 a		2,800	<25	<25	<25	73		10/06/99	MW-2
MW-2 04/06/01 210 <25 <25 <25 2,800 3,800 a									~~	,400 a		11,000	<100	<100	<100	890		01/11/00	M₩-2
MW-2 07/25/01 250 <12.5 <12.5 <12.5 3,400 4,200 a		~~				*-				,800 a		2,800	<25	<25	<25	210		04/06/01	MW-2
MW-2 11/20/01 870 <100 <100 200 12,000 8,700			**	-	-					,200 a		3,400	<12.5	<12.5	<12.5	250		07/25/01	MW-2
				~~		••• <sup>1</sup>				,700		12,000	200	<100	<100	870		11/20/01	MW-2
MW-2 01/23/02 100 <25 <25 <25 3,900 3,300										,300		3,900	<25	<25	<25	100		01/23/02	MW-2
MW-2 04/26/02 13 <0.50 <0.50 <1.5 90 6,900										,900		90	<1.5	<0.50	<0.50	13		04/26/02	MW-2
MW-2 07/25/02 <50 <50 <100 <5,000 6,600										,600		<5,000	<100	<50	<50	<50		07/25/02	MW-2
MW-2 10/22/02 <5.0 <5.0 <5.0 <10 7,800 7,000 <250 <250 <500 <250 <250 -				<250	<250	<\$00	<250	<250	<250	,000		7,800	<10	<5.0	<5.0	<5.0		10/22/02	MW-2
MW-2 01/27/03 90 100 60 78 6,100 6,400 <250 <250 <500 <750 <250				<250	<250	<500	<250	<250	<250	400		6,100	78	60	100	90		01/27/03	MW-2
MW-2 10/22/03 b <10 <10 <10 <20 2,000 g 3,000 <10 <10 <10 <10 <10 <10				<10	<20	<100	<10	<10	<10	.000	g	2,000	<20	<10	<10	<10	b	10/22/03	MW-2
MW-2 01/30/04 <25 <25 <50 <2,500 2,100 <25 <25 <25 <25 <25				<25	<50	<250	<75	<75	<25	100	~	<2,500	<50	<25	<25	<25		01/30/04	MW-2

							Con	cer	itration	<u>(μg/L)</u>			<u>.</u>					
					Ethyl-	Total											Dissolved	[
Well Number	Sample Date	Be	enzene	Toluene	benzene	Xylenes	TPH-g		MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Lead	Ethanol
TW-I	10/13/93	<	0.50	<0.50	<0.50	<0.50	<\$0		**	<0.50	<0.50			· ·				- <i>#</i>
TW-2	10/13/93	<	-0.50	<0.50	<0.50	<0.50	<50		**,**	<0.50	<0.50		**			~ .		**
TW-2	01/12/99	<	0.50	<0.50	<0.50	<0.50	<50		<5.0		*-		• <sup>`</sup>	-	**		- <b></b>	سرم
TW-2	04/13/99	<	=0.50	<0.50	<0.50	<0.50	<\$0		<5.0		<b>*</b> -				44			
TW-2	07/07/99	<	:0.50	<0.50	<0.50	<0.50	<50		<5.0						**			
TW-2	10/06/99	<	:0.50	<0.50	<0.50	<0.50	<50		<5.0		**	**	. شوچه					
TW-2	01/11/00	<	-0.50	<0.50	<0.50	<0.50	<\$0		<5.0		***	- مرم	<b></b>		ш.j			تعند
TW-2	04/06/01	<	:0.50	<0.50	<0.50	<0.50	<50		<5.0					The second		-		يديند. م
TW-2	07/25/01	<	0.50	<0.50	<0.50	<0.50	<50		<5.0		**		**					لحج
TW-2	11/20/01	<	:0.50	<0.50	<0.50	<0.50	<50		<5.0	. **	**	***						
TW-2	01/23/02	<	:0.50	<0.50	<0.50	<0.50	<50		<5.0		**		~		<b></b>	-		
TW-2	04/26/02	<	:0.50	<0.50	<0.50	<15	<50		<5.0	**					-			
TW-2	07/25/02	<	×0.50	<0.50	<0.50	<1.0	<50		<5.0			~~						
TW-2	10/22/02	~	<0.50	<0.50	<0.50	<1.0	<50		<1.0	<5.0	<5.0	<5:0	<10	<5.0	<5.0	~	-	
TW-2	01/27/03	~	\$0.50	<0.50	<0.50	<1.0	<50		<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0			
TW-2	10/22/03	ь <	<0.50	<0.50	<0.50	<1.0	53	g	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50			<75
TW-2	01/30/04	~	<0.50	<0.50	<0.50	<1.0	<50	•	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50		شط	<25
TW-3	10/13/93	~	<0.50	<0.50	<0.50	<0.50	<50		~~	<0.50	<0.50		` ~~					~~
TW-4	10/13/93		65	18	49	33	2.000			<5.0	<5.0	~~						
TW-4	10/03/03	b. <	<0.50	0.97	0.63	1.4	<50		<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50		**	<25
TWS	10/12/02	7	0.000	25 000	3 900	77 000	130 000			~100							• •	
T31/-5	10/03/03		1 400	1 700	\$20	20000	240,000		~100	<100	~100	 #1.073	-100				*C-19	
1 VY ** J	10/05/05	0 4	******	1,700	020	2,900	21,000		<100	<100	<100	<100	<100	<200	<100	***		<5,000
TW-6	10/14/93	3	3,800	1,600	110	540	4,100		<b></b> ,	<1.0	<1.0		·					
TW-6	12/22/94	5	5,400	2,700	3,100	6,800	24,000			<1.0			•••	-		<1.0		
TW-6	03/24/95	4	1,900	530	270	380	10,000			<2.0		-		<b>Sinters</b>	-	<2.0	<3.0	
TW-6	. 06/29/95	1	2,000	6,600	1,000	3,000	28,000			<1.0		-		·	~~	<1.0	4.2	
TW-6	09/29/95	1	9,000	5,200	1,500	4,000	47,000			<1.0		• •••.			-	<1.0	33	
TW-6	02/23/96	1	3,000	5,200	1,100	2,770	25,000			<1.0					-	<1.0	5 7	
TW-6	01/12/99	9	900	4,100	1,000	4,000	29,000		210		**	· ·				~ 4 + 0		
TW-6	04/13/99		0.70	<0.50	<0.50	0.62	<50		22		~	-					-	<del></del> .
TW-6	07/07/99		13	<0.50	<0.50	2.2	55		8.1	3 **				•••			<u></u>	
TW-6	10/06/99		0.59	<0.50	<0.50	<0.50	<50		<5	-							***	
TW-6	01/11/00	<	<0.50	<0.50	<0.50	<0.50	<50		<50	·						~-	-	~
TW-6	04/06/01		<0.50	<0.50	<0.50	<0 50	<50		~~ ^		**			~*		**		·
an + 7 - 14	~				· · · · · · · · · · · · · · · · · · ·	- V . J V			~	141.40	-		lan ar		-			

Page 5 of 7

Concentration (	(	T.	١
Concentration	(μg/	L	J

														•					
					Ethyl-	Total		· · ·									Dissolved	1	
Well Number	Sample Date		Benzene	Toluene	benzene	Xylenes	TPH-g	MTBE		1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	I,1-DCA	Lead	Ethanol	
TW-6	07/25/01		<0.50	<0.50	<0.50	<0.50	<50	<5.0							**			· πη ·	
TW-6	11/20/01		<0.50	<0.50	<0.50	<0.50	<50	<5.0				~	<u>نم</u> ت			**		. من	
TW-6	01/23/02	•	<0.50	<0.50	<0.50	<0.50	<50	<5.0		·								مم	
TW-6	04/26/02		<0.50	<0.50	<0.50	<1.5	<50	<5.0					-						
TW-6	07/25/02		0.60	<0.50	<0.50		<50	<5.0		·		······	يت ا	•	~~			· · ·	
TW-6	10/22/02		<0.50	<0.50	<0.50	<1.0	<50	<1.0		<5.0	<5:0	<5.0	<10	<5.0	<s.0< td=""><td></td><td>ندية.</td><td></td><td></td></s.0<>		ندية.		
TW-6	01/27/03		<0.50	<0.50	< 0.50	<1,0	<50	<1.0		<5:0	<5.0	<5.0	<10	<5.0	<5.0	<del></del>			
TW-6	10/22/03	b	<0.50	<0.50	<0.50	<1.0	<50	<5.0		<0.50	<0.50	<0.50	<5.0	<1.0	<0.50			<25	
TW-6	01/30/04		<0.50	<0.50	<0.50	<1.0	<50	<5.0	۰.	<0.50	<0.50	<0.50	<5.0	<1.0	<0.50	· · ·		<25	
TW-7	10/14/93		48,000	15,000	3,400	16,000	100,000	40 <b>4</b> 4		<50	<50	<u> </u>			<b></b> ·			••	
<b>TW-7</b>	12/22/94		49,000	33,000	- 7,300	28,000	210,000	**		<1.0		~*				<1.0	·		
TW-7	03/24/95		13,000	7,000	1,500	5,600	56,000			<2.0						<2.0	<3.0		
TW-7	06/29/95		39,000	8,100	3,000	8,300	100,000			<1.0						<1.0	3.5	76	•
TW-7	09/29/95		32,000	8,700	2,900	8,500	74,000			<1.0		~		<b>بہ</b>	-	<1.0	3.5		
TW-7	02/23/96		22,000	8,400	2,700	6,900	50,000			<5.0	~		11			<5.0	3.8	**	
TW-7	01/12/99		7,300	670	2,700	960	29,000	<100			~		**						
TW-7	04/13/99		4,500	1,800	180	8,200	54,000	1,200				***		**					
. T₩-7	07/07/99		8,000	4,500	1,200	3,500	42,000	2,200	2		~~.		~*						
TW-7	10/06/99		9,700	1,600	1,600	2,100	29,000	580	a										
TW-7	01/11/00		8,500	7,100	1,600	6,700	52,000	2,600	a	+-	~*		***				<b>~</b> ~.	**	
TW-7	04/06/01		4,800	1,800	2,200	3,400	22,000	690	a		**				~~	***		= =	
TW-7	07/25/01		5,100	660	1,400	2,100	20,000	1,100	a.			÷.,	· • • •	**		·		<del></del>	
<b>TW-7</b>	11/20/01		6,400	1,100	1,000	2,400	26,000	1,600		**	**		<del>***</del> .			~*		~~	
TW-7	01/23/02		5,100	510	2,200	3,900	25,000	1,200			~~							·	
TW-7	04/26/02		4,400	1,300	2,900	2,370	29,000	1,600			•-		**				· · ·		
<b>TW-7</b>	07/25/02		4,900	470	1,600	1,700	21,000	1,900		~~	**	-							
TW-7	10/22/02		6,700	410	1,100	1,500	31,000	1,700	a	<100	<100	<100	<200	<sup>^</sup> <100	<100				
TW-7	01/27/03		2,700	710	1,900	1,100	17,000	680		<100	<100	<100	<200	<100	<100				
TW-7	10/22/03	ь	2,900	130	310	370	13,000	660		<13	<13	<13	<130	<25	<13	<del></del>		<630	
TW-7	01/30/04		2,500	520	1,900	550	16,000	300		<25	<25	<25	<250	·<50	<25			<1,300	
																		•	

	Conce	ntration (µg	ŗ/L)				1. A.				
Ethyl- Well Number Sample Date Benzene Toluene benzene X	Total Kylenes TPH-g	MTBE	1,2-DCA	EDB	TAME	TBA	DIPE	ETBE	1,1-DCA	Dîssolve: Lead	l Ethanol
Notes:											
TPHg - Total Petroleum Hydrocarbons as gasoline	·····		·	······································							<u> </u>
MTBB - Methyl tertiary butyl ether											
DCA - Dichloroethane											
EDB - Effiylene dibromide											-
TAME - Tertiary amyl methyl ether											
TBA - Tertiary butyl alcohol											
DIPE - Di-isopropyl ether		•									1. A.
ETBE - Ethyl tertiary butyl ether					•						
µg/L = Micrograms per liter.										· ·	
<= Not detected at or above indicated laboratory reporting limit.										÷	
-= Not Analyzed											
a = MTBE Confirmation by EPA Method 8260B.											
b = Samples were analyzed by EPA Method 8260B.								·.			· ·
g = hydrocarbon reported in gasoline range does not match our gaso	line standard.							`	~		



**EXPLANATION** 

SAMPLE ID

NOTES:

APPROXIMATE

LEVINE · FRICKE

- MW-2 MONITORING WELL LOCATION (Sampled Jan. 2004 by ETIC)
  - GRAB GROUNDWATER LOCATION (Sampled Nov. 2003 by ETIC)

  - GRAB GROUNDWATER LOCATION (Sampled Mar. 2004 by LFR)

CHEMICAL CONCENTRATION IN MICROGRAMS PER LITER DEPTH SAMPLE TAKEN (FEET BELOW GROUND SURFACE)

1. LOCATIONS OF ALL FEATURES DEPICTED ARE

2. CONCENTRATIONS IN MICROGRAMS PER LITER

Groundwater Isoconcentration Contour Map for Methyl Tertiary-Butyl Ether (µg/l)

March/April 2005

Former Cox Cadillac, 230 Bay Place, Oakland, California

Figure 7

MTBE CLEAN UP GOAL IS 5 MICROGRAMS PER LITER

**ISO-CONCENTRATION CONTOUR** 

## APPENDIX B

Laboratory Analytical Reports



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

#### Laboratory Job Number 203074 ANALYTICAL REPORT

<u>Sample ID</u>	<u>Lab ID</u>
LF-1	203074-001
LF-2	203074-002
LF-3	203074-003
LF-4	203074-004
LF-5	203074-005
TB050608	203074-006
DUP-1	203074-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

( nature:

Senior Program Manager

Date: <u>05/16/2008</u>

Date: \_05/20/2008\_

NELAP # 01107CA

Page 1 of

## Tam, Bonnie

rom:	Tam, Bonnie
ent:	Tuesday, May 27, 2008 3:01 PM
То:	Goloubow, Ron
Cc:	Quach, Du
Subject:	oakland whole foods data validation

I

Hi Ron,

There is one issue that caused the Oakland Whole Foods analytical results to be qualified.

Project number: 001-09171-17

Curtis and Tompkins Lab ID: 203074

The relative percent difference between the MTBE results in LF-4 and DUP-1 exceeded the QAQC limit of 50 percent. Consequently, the MTBE results are J qualified.

Let me know if you have any questions.

Bonnie Tam

enior Staff Toxicologist

LFR Inc. 1900 Powell Street, 12th Floor Emeryville, CA 94608 510.596.9576 Direct 510.652.4500 Main 510.652.4906 Fax

Bonnie.Tam@LFR.com

Visit us at www.lfr.com



#### CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 203074 LFR Levine Fricke 001-09171-17 Oakland Whole Foods 05/06/08 05/06/08

This hardcopy data package contains sample and QC results for six water samples, requested for the above referenced project on 05/06/08. The samples were received on ice and intact, directly from the field. All data were e-mailed to Ron Goloubow on 05/15/08.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B): No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B): No analytical problems were encountered.

#### Page 1 of 1

#### Tracy Babjar

From:	"Goloubow, Ron" <ron.goloubow@lfr.com></ron.goloubow@lfr.com>
To:	"Tracy Babjar" <tracy.babjar@ctberk.com></tracy.babjar@ctberk.com>
Sent:	Wednesday, May 07, 2008 12:08 PM
Subject:	RE: 001-09171-17 - C&T Login Summary (203074)

Please put the trip blank on hold.

Ron Goloubow LFR Inc. 510-596-9550 Direct Dial 510-501-1789 Cell 510-652-4906 Facsimile ron.goloubow@lfr.com

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com] Sent: Tuesday, May 06, 2008 11:33 PM To: Goloubow, Ron Cc: Sullivan, Michael Subject: 001-09171-17 - C&T Login Summary (203074)

Happy Wednesday! Per my conversation with Mike, this job has been logged in as TVH/MBTXE by GC and TEH-diesel and motor oil. No 8260 methods such as the 8010 list which was indicated on the COC. We have logged in the trip blank for MBTXE only not TVH-Gasoline per the COC. If you should need gas on the trip blank then please let me know. Please review the login summary well. We logged things in based on the past jobs for Cox Cadillac per my conversation with Mike not as the COC indicated. Thanks. Tracy :)

#### **C&T** Login Summary for 203074

<b>Project:</b> 001-09171-17	Report To: LFR Levine Fricke	Bill To: LFR Levine Fric
Site: Oakland Whole Foods	1900 Powell Street	1900 Powell Stro
Lab Login #: 203074	12th Floor	12th Floor
<b>Report Due:</b> 05/13/08	Emeryville, CA 94608	Emeryville, CA
PO#:	ATTN: Ron Goloubow	ATTN: Account
C&T Proj Mgr: Tracy Babjar	(510) 652-4500	(510) 652-4500

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
		-			· .		
LF-1	001	05/06	05/06			200043	
				Water	ТЕНМ		
				Water	TVH/MBTXE		

## COOLER RECEIPT CHECKLIST



Login # 203074 Date Received $5 - 6 - 08$ Number of coolers
ChenicProject Oakland Whole toods
Date Logged in 5-6-08 By (print) FNichols (sign) Cattle
1. Did cooler come with a shipping slip (airbill, etc)?
2A. Were custody seals present? □ YES (circle) on cooler on samples NO How many Name Date
2B. Were custody seals intact upon arrival?
Bubble Wrap Foam blocks Bags INone
Cloth material Cardboard Styrofoam Paper towels 7. If required, was sufficient ice used? Samples should be $< \text{ or } = 6^{\circ}\text{C}$
Type of ice used: WET $\square$ BLUE $\square$ NONE Temp(°C) $9.4$
SAMPLES RECEIVED ON ICE DIRECTLY FROM FIELD. COOLING PROCESS HAD BEGUN.
<ul> <li>8. Were soil Encore sampling devices present?</li></ul>
<ul> <li>9. Did all bottles arrive unbroken/unopened?</li></ul>
13. Was sufficient amount of sample sent for tests requested?
14. Are the samples appropriately preserved?
15. Are bubbles absent in VOA samples?
16. Was the client contacted concerning this sample delivery?
If YES, Who was called? By Date:
COMMENTS

SOP Volume: Client Services Section: 1.1.2 Page 1 of 1

Rev: 4 Number 1 of 3 Effective: 06 March 2008 F:\qc\forms\checklists\Cooler Receipt Checklist\_rv4.doc

Curtis & Tompkins, Ltd.

	Curtis &	Tompkins Labe	oratories An	alytical Repo	rt
Lab #: Client: Project#:	203074 LFR Levine F 001-09171-17	ricke	Location: Prep:	Oakland W EPA 5030B	hole Foods
Matrix: Units: Batch#:	Water ug/L 138019		Sampled: Received:	05/06/08 05/06/08	
Field ID: Type: Lab ID:	LF-1 SAMPLE 203074-001		Diln Fac: Analyzed:	1.000 05/13/08	
Ana Gasoline C7-C1 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	2 2	Result ND ND ND ND ND ND ND		NL           50         EP           2.0         EP           0.50         EP	Analysis A 8015B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B
Surr Trifluorotolue Bromofluoroben Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID) ne (PID) zene (PID)	REC         Limits           81         69-140           99         73-144           76         60-146           94         65-143	Analys EPA 80155 EPA 80155 EPA 80215 EPA 80215	19	
Type: Lab ID:	LF-2 SAMPLE 203074-002		Diln Fac: Analyzed:	1.000 05/13/08	
Ana Gasoline C7-C1 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	lyte 2	Result         52 Y         360           ND         0.5         ND           ND         0.6         ND	4 3 C	RL         EP           50         EP           0.50         EP	Analysis A 8015B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B A 8021B
Surr Trifluorotolue Bromofluoroben Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID) ne (PID) zene (PID)	REC         Limits           107         69-140           121         73-144           103         60-146           115         65-143	Analys EPA 8015B EPA 8015B EPA 8021B EPA 8021B	1.5	

Presence confirmed, but RPD between columns exceeds 40% Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit

Page 1 of 4



	Curtis	& Tompkin	s Labo	catories A	malytica	l Report		
Lab #: Client: Project#:	203074 LFR Levine 001-09171-	e Fricke -17		Location: Prep:	Oa EP	kland Whol A 5030B	e Foods	
Matrix: Units: BatCh#:	Water ug/L 138019			Sampled: Received:	05	/06/08 /06/08		
Field ID: Type:	LF-3 SAMPLE			Lab ID:	20	3074-003		
Analyte Gasoline C7-C12 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene		Regult           58 Y           16,000           ND           0.70           ND           0.94	с	RL 50 50 0.50 0.50 0.50 0.50 0.50 0.50	D:10 Pac 1.000 25.00 1.000 1.000 1.000 1.000 1.000 1.000	Analyzed 05/14/08 05/13/08 05/14/08 05/14/08 05/14/08 05/14/08 05/14/08	Analy EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B	#1.#
Surre Trifluorotoluen Bromofluorobenz Trifluorotoluen Bromofluorobenz	gate e (FID) ene (FID) e (PID) ene (PID)	<b>%REC</b> 94 101 84 94	Limits 69-140 73-144 60-146 65-143	Diin Fac 1.000 1.000 1.000 1.000 1.000	Analyzed 05/14/08 05/14/08 05/14/08 05/14/08	And EPA 80155 EPA 80155 EPA 80215 EPA 80215 EPA 80215	lysis	
$\begin{pmatrix} d & ID: \\ 1 & e: \\ Lab & ID: \end{pmatrix}$	LF-4 SAMPLE 203074-004			Diln Fac: Analyzed:	1. 05	000 /14/08		
Anal Gasoline C7-C12 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	<b>yte</b>	ND ND ND ND ND ND	130		RL 50 2.0 0.50 0.50 0.50 0.50 0.50 0.50	EPA 8 EPA 8 EPA 8 EPA 8 EPA 8 EPA 8 EPA 8	Analysis 015B 021B 021B 021B 021B 021B 021B 021B 021	
Surro Trifluorotoluen Bromofluorobenz Trifluorotoluen Bromofluorobenz	gate le (FID) lene (FID) le (PID) lene (PID)	93 100 85 93	Limits 69-140 73-144 60-146 65-143	Anal EPA 8015B EPA 8015B EPA 8021B EPA 8021B	<u>ysia</u>			

Presence confirmed, but RPD between columns exceeds 40% Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 2 of 4



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	Curtis & '	Tompkins	Labor	atories An	alytical R	eport	
Lab #: Client: Project#:	203074 LFR Levine F: 001-09171-17	ricke		Location: Prep:	Oaklan EPA 50	d Whole Fo 30B	ods
Matrix: Units: Batch#:	Water ug/L 138019			Sampled: Received:	05/06/	08 '08	
Field ID: Type: Lab ID:	LF-5 SAMPLE 203074-005			Diln Fac: Analyzed:	1.000 05/14/	08	
Ana Gasoline C7-C1 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	1 <b>ybe</b>	Re ND ND ND ND ND ND	<u>sult</u> 28		RL 50 2.0 0.50 0.50 0.50 0.50 0.50 0.50	Ana EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B	19818
Surr Trifluorotolue Bromofluoroben Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID) ne (PID) zene (PID)	%REC         1           93         6           100         7           84         6           94         6	<b>imits</b> 9-140 3-144 0- <b>1</b> 46 5-143	Analys EPA 8015B EPA 8015B EPA 8021B EPA 8021B	ia		
( Type: Lab ID:	DUP-1 SAMPLE 203074-007			Diln Fac: Analyzed:	1.000 05/14/	<b>/08</b>	
Ana Gasoline C7-C1 MTBE Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	1 <b>756</b> 2	Re ND ND ND ND ND ND	59		RL 50 2.0 0.50 0.50 0.50 0.50 0.50 0.50	Ana EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B	lysis
Surr Trifluorotolue Bromofluoroben Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID) ne (PID) zene (PID)	%REC         1           92         6           101         7           83         6           93         6	<b>imits</b> 9-140 73-144 50-146 55-143	Analys EPA 8015B EPA 8015B EPA 8021B EPA 8021B	1.0		

Presence confirmed, but RPD between columns exceeds 40% Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 3 of 4



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	Curtis & Tompkins 1	Laboratories Anal	lytical Report
Lab #: Client: Project#:	203074 LFR Levine Fricke 001-09171-17	Location: Prep:	Oakland Whole Foods EPA 5030B
Matrix: Units: Batch#:	Water ug/L 138019	Sampled: Received:	05/06/08 05/06/08
Type:	BLANK OC441325	Diln Fac: Analyzed:	1.000 05/13/08

Gasoline C7-C12	ND	50	EPA OVISB	
MTBE	ND	2.0	EPA 8021B	
Benzene	ND	0.50	ÉPA 8021B	
Toluene	ND	0.50	EPA 8021B	
Ethylbenzene	ND	0.50	EPA 8021B	
m p-Xylenes	ND	0.50	EPA 8021B	
o-Xvlene	ND	_0.50	EPA 8021B	
Surrodate	%REC Limits	Analysis		

Surrogate	s se	example and the second s	Anal	<u> </u>
Trifluorotoluene (FID)	95	69-140	EPA 8015B	
Bromofluorobenzene (FID)	94	73-144	EPA 8015B	
Trifluorotoluene (PID)	90	60-146	EPA 8021B	
Bromofluorobenzene (PID)	88	65-143	EPA 8021B	

Presence confirmed, but RPD between columns exceeds 40% Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 4 of 4



Batch QC Report

	Curtis & Tompkins Labora	atories Analyt:	lcal Report
Lab #:	203074	Location:	Oakland Whole Foods
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09171-17	Analysis:	EPA 8015B
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC441326	Batch#:	138019
Matrix:	Water	Analyzed:	05/13/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	
Gasoline C7-C12	1,000	1,054	105	80-120	

Surrogate	%RE	C Limits	
Trifluorotoluene (FID)	101	69-140	
Bromofluorobenzene (FID)	97	73-144	



## Batch QC Report

	Curtis & Tompkins I	aboratories Anal	vtical Report	
	cororr - comprime -			
Lab #:	203074	Location:	Oakland Whole Foods	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09171-17	Analysis:	EPA 8021B	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC441455	Batch#:	138019	
Matrix:	Water	Analyzed:	05/13/08	
Units:	ug/L			

Analyte	Spiked	Result	%REC	Limits	
MTBE	10.00	9.441	94	70-129	
Benzene	10.00	9.574	96	80-120	
Toluene	10.00	9.677	97	80-120	
Ethylbenzene	10.00	10.44	104	80-120	
m,p-Xylenes	10.00	10.74	107	80-120	
o-Xylene	10.00	10.19	102	80-120	

Surrogate	&REC	Limits	
Trifluorotoluene (PID)	93	60-146	
Bromofluorobenzene (PID)	97	65-143	 

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Batch QC Report

	Curtis & Tompkins Labor	atories Analyt	ical Report
Lab #:	203074	Location:	Oakland Whole Foods
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09171-17	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	138019
MSS Lab ID:	203191-001	Sampled:	05/06/08
Matrix:	Water	Received:	05/07/08
Units:	ug/L	Analyzed:	05/13/08
Diln Fac:	1.000		

Type:	MS			Lab ID:		QC441327			
Gasoline (	Analyte	MSS R	<b>esult</b> 44.79	Spik 2.00	ed	Result 1,660	%RE(	2 Li	<b>mits</b> -120
	Surrogate	%REC	Limits						
Trifluorot Bromofluor	coluene (FID) cobenzene (FID)	103 97	69-140 73-144						
· · ·									
Туре:	MSD			Lab ID:		QC441328			
	Analyte		Spiked		Result	%RE	C Limits	RPD	Lim
Gasoline C	C7-C12		2,000		1,693	82	67-120	2	20
	Surrogate	%REC	'Limits						
Trifluorot   Bromofluor	coluene (FID) cobenzene (FID)	104 101	69-140 73-144						

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Page 2 of 4 (43) Curtis & Tompkins Ltd.





Page 2 of 4 (19) Curtis & Tompkins Ltd.

Curtis & Tompkins, Ltd.

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	То	tal Extracta	able Hydroca	rbons	
Lab #: Client: Project#:	203074 LFR Levine Fric 001-09171-17	cke	Location: Prep: Analysis:	Oakland Whole EPA 3520C EPA 8015B	Foods
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 137965		Sampled: Received: Prepared:	05/06/08 05/06/08 05/10/08	
Field ID:	LF-1		Lab ID:	203074-001	
Tybe:		Result	Analyzeu:	RT	
Diesel C10-C24 Motor Oil C24-(	236	ND ND		50 300	
Surre Hexacosane	ogate (	<b>%REC</b> Limits 39 63-130			
Field ID: Type:	LF-2 SAMPLE		Lab ID: Analyzed:	203074-002 05/11/08	
Ana. Diesel C10-C24 Motor Oil C24-C	<b>lyte</b> C36	<b>Result</b> 1,500 Y 840		RL 50 300	
acosane	gate	%REC         Limits           36         63-130			
Field ID: Type:	LF-3 SAMPLE		Lab ID: Analyzed:	203074-003 05/12/08	
Ana Diesel C10-C24 Motor Oil C24-C	1 <b>yte</b> 236	Result 320 Y ND		RL 50 300	
Surre Hexacosane	ogate (	8REC Limits 37 63-130			
Field ID: Type:	LF-4 SAMPLE		Lab ID: Analyzed:	203074-004 05/12/08	
Ana Diesel C10-C24 Motor Oil C24-C	l <b>yte</b> 236	Result 95 Y ND		RL 50 300	
Surre	ogate	8REC Limits 36 63-130			

Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 1 of 2

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	То	tal E	xtracta	ble Hydroc	arboi	18	
Lab #: Client: Project#:	203074 LFR Levine Fric 001-09171-17	ke:		Location: Prep: Analysis:		Oakland Whole Fo EPA 3520C EPA 8015B	abc
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 137965	<u> </u>		Sampled: Received: Prepared:		05/06/08 05/06/08 05/10/08	
Field ID: Type:	LF-5 SAMPLE			Lab ID: Analyzed:		203074-005 05/12/08	
Ana Diesel C10-C24 Motor Oil C24-C	<b>yte</b> 236	NĎ	Result 91 Y		RL 50 300		
Surro Hexacosane	ogate 8	%REC	Limits 63-130				
Field ID: Type:	DUP-1 SAMPLE			Lab ID: Analyzed:		203074-007 05/12/08	
Anal Diesel C10-C24	yte		Result 120 Y		RL 50		
Motor Oil C24-C	.36	ND %REC	Limics		300		
acosane	<u> </u>	37	63-130				
Type: Lab ID:	BLANK QC441108			Analyzed:		05/11/08	
Anal Diesel C10-C24 Motor Oil C24-C	yte 36	ND ND	Result		<b>RL</b> 50 300		
Surro Hexacosane	egate 8	% <b>REC</b>	<b>Limits</b> 63-130				

. Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 2 of 2

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\\Lims\gdrive\ezchrom\Projects\GC11A\Data\132a005, A



## ( Bauch QC Report

	Tc	otal	Extracta	ble Hydr	ocarbo	la				
Lab #:	203074			Location	:	Oakland Wł	nole Fo	oods		
Client:	LFR Levine Fri	cke		Prep:		EPA 3520C				
Project#:	001-09171-17			Analysis	:	EPA 8015B				
Matrix:	Water		-	Batch#:		137965				
Units:	ug/L			Prepared	:	05/10/08				
Diln Fac:	1.000			Analyzed	:	05/12/08				
Type :	BS			Cleanup 1	Method:	EPA 3630C				
Lab ID:	QC441109									
Anal	VTP		Spiked		Result	\$J	EC D	imits		
Diesel C10-C24			2.500		1.799	72	6:	1-120		
			_,							
Surro	oate	SREC.	Limita							
Hexacosane		106	63-130				*****	******		
Ţ´´:	BSD			Cleanup	Method:	EPA 3630C				
ID:	QC441110									
Anal	vte		Spiked		Result	81	EC L	imits	RPD	Lim
Diesel C10-C24	4		2,500		1,724	69	6:	1-120	4	29
E										
Surro	oqate	%REC	Limits							
Hexacosane		91	63-130							
•										

RPD= Relative Percent Difference

Page 1 of 1

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2 3074		СНА		OF C	: U S	тс	רס	(1	Â	۲. ا	YS	ES	R	EQ	UE	SТ	FO	RM					~~		
SAMPLE COLLECTOR:	t. 12th Floor		PROJECT <i>ひつ</i> /~(	NO.: 2917	1-1	7		SECT	ION N	0.:		DATE:	1610	28		SA	AMPLEF Ma	r's init As	IALS:			SER	AL NU		
LEVINE • FRICKE (510) 652-4500 Fe	nia 94608-18	27 2246	PROJECT	NAME:		·····	آما	-	~~			SAMP	ALLA!		S.	m						<b>7</b>	2	.000	43
(310) 032-4000 Ta	SAM	PLE	$\nabla \alpha_{\ell}$	10~0	<u> </u>				<u>10</u> 0	<i>.</i>		10	> >	mi	Juga	ANA	LYSES	3				_	7	REMAR	RKS
				$\overline{}$	7		TY	PE	7	7	$\sum$	1	: 	și/	7	/ /	77	7	7		Т	AT	Z·voo	Cs: _** I	Metals:
				Ne NO.	aner	_	7	1	801514	8015M	5021100	S2EGUOL	SE LON		۰/			/ /		-	7		8260	List □ (	CAM17 RCRA
			5	amy	3	je l		è é			3	ð,	<u>}</u>		/	/			TEST.	ž,	S	-	<b>X</b> 8010	tist 🗌 I	LUFT
Sample ID.	Date	Time		2	<u>697 4</u>	$\sim$		<u> </u>	$\frac{28}{\sqrt{8}}$	$\frac{2}{3}$	<u>_h</u>	$\frac{2}{x}$	$\sum_{x}$	¥		{			<u>%%</u> 	Ϋ́		8.	624	.:st	
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