# 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, 2008**
**001-09171-17**

Prepared for:

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

LFR ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

April 30, 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 January 1 through March 31, 2008, Former Cox Cadillac Property, 230 Bay Place, Oakland, California (Fuel Leak Case No. RO0000148)

Dear Mr. Khatri:

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 January 1 through March 31, 2008 at the Former Cox Cadillac Property, located at 230 Bay Place, Oakland, California ("the Site"; Fuel Leak Case No. RO0000148).

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 The RCAP superseded the Corrective Action Plan originally submitted to Alameda County Environmental Health (ACEH) on April 8, 2004.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 April 1 through June 30, 2008 in May 2008. The report of this monitoring event will be submitted on or before July 31, 2008.

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LFR

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

Sincerely,

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

Enclosure

cc: Robert Bond - Bond Company Oakland, LLC
Alan Lee – Bond Company Oakland, LLC
Elicia Fu – Bond Company Oakland, LLC
Zachary Walton, Esq. - Paul, Hastings, Janofsky & Walker LLP

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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) 853-0070 or Chuck Pardini of LFR Inc. at (650) 469-7224.

Sincerely,

Bond Ce Oakland LLC

Robert Bond
~~President~~
Authorized Signatory

# CONTENTS

## 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)


4/30/08
Date

# 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 January 1 through March 31, 2008 ("the reporting quarter") at the Former Cox Cadillac Property located at 230 Bay Place, Oakland, California ("the Site"; Fuel Leak Case No. RO0000148).

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.

## 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.

# 2.0 QUARTERLY GROUNDWATER MONITORING REPORT

The following activities were performed during this reporting quarter:

- Groundwater samples were collected from the wells on February 6, 2008.
- Water levels were measured on February 26, 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 February 6; however, the water level in well LF-1 did not stabilize. Therefore, the locking cap to well LF-1 was placed on the well to allow the water level to equilibrate. Depth to groundwater was measured on February 26, 2008, approximately 3 weeks after samples were collected from the wells. 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 February 26, 2008 ranged from 2.33 to 5.55 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 February 26, 2008, with a horizontal groundwater gradient of approximately 0.044 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 prepared for this Site previously 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 February 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 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.

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 and TPHmo were not present above analytical detection limits in the groundwater sample collected from well LF-1 (located near former well MW-1). TPHd was detected in the groundwater sample collected from well LF-1 at 55 micrograms per liter ($\mu$g/L), which is slightly above the detection of 50 $\mu$g/L for TPHd.

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 and LF-5, to 15,000 $\mu$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 Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) of 5.0 $\mu$g/L for sites where groundwater is considered a source of drinking water. These analytical results are consistent with the results of samples collected at the Site in October 2007.

TPHd was detected in samples collected from wells LF-2, LF-3, and LF-4 at 1,800/1,700 (duplicate sample) $\mu$g/L, 290 $\mu$g/L, and 130 $\mu$g/L, respectively. These concentrations are above the ESL of 100 $\mu$g/L for TPHd for sites where groundwater is

considered a source of drinking water. The laboratory reported that the sample did not exhibit a chromatographic pattern consistent with their standard for TPHd. This laboratory comment indicates that the TPHd is degraded and not indicative of a recent release, and is consistent with the samples collected at the Site in October 2007.

TPHmo was detected at 800 µg/L and 880 µg/L in the primary and duplicate samples collected from well LF-2.

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. Petroleum hydrocarbon concentrations in these wells will be monitored during future monitoring events.

## 3.0 SCHEDULE

The next on-site groundwater monitoring event will take place in May 2008. The next quarterly groundwater monitoring report will be submitted to ACEH on July 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.

———. 2008. 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.

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.

# Table 1
## Groundwater Elevations
## Former Cox Cadillac Property
## 230 Bay Place, Oakland, California

| Location ID | Date Collected | Top-of-Casing Elevation [1] | Depth to Groundwater [2] | Groundwater Elevation [1] |
|---|---|---|---|---|
| LF-1 | 10/8/2007 | 13.40 | 2.56 | 10.84 |
| | 2/26/2008 | 13.40 | 2.33 | 11.07 |
| LF-2 | 10/8/2007 | 13.13 | 3.71 | 9.42 |
| | 2/26/2008 | 13.13 | 3.78 | 9.35 |
| LF-3 | 10/8/2007 | 13.15 | 5.24 | 7.91 |
| | 2/26/2008 | 13.15 | 5.08 | 8.07 |
| LF-4 | 10/8/2007 | 13.32 | 5.74 | 7.58 |
| | 2/26/2008 | 13.32 | 5.55 | 7.77 |
| LF-5 | 10/8/2007 | 15.92 | 3.46 | 12.46 |
| | 2/26/2008 | 15.92 | 2.97 | 12.95 |

**Notes:**

[1] Top-of-casing and groundwater elevation in North America Vertical Datum 1988

[2] Depth to water measured in feet below top of casing

**Table 2**
**Results of Field Parameters**
**in Groundwater Samples**
**Former Cox Cadillac Property**
**230 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 |
| 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 |
| 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 |
| 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 |
| 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 |

**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**
*concentrations in micrograms per liter*

| Location ID | Date Collected | Benzene | Toluene | Ethyl benzene | Total Xylenes | TPHmo | TPHg | TPHd | MTBE |
|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 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** |
| 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** |
| 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** |
| 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 |
| **Screening Criteria** | | | | | | | | | |
| ESL | | 1.0 | 40 | 30 | 13 | 100 | 100 | 100 | 5.0 |

**Notes:**
**BOLD samples are above ESLs**

Samples collected in February 2008 were analyzed by Curtis & Tompkins, Ltd., using EPA Test Methods 8260B and 8015B.

Duplicate = duplicate sample
TPHmo = total petroleum hydrocarbons as motor oil
TPHd = total petroleum hydrocarbons as diesel
TPHg = total petroleum hydrocarbons as gasoline
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 - these ESL screening criteria were established by the Regional Water Quality Control Board to address environmental protection. The ESLs used are groundwater screening levels, where groundwater is a current potential as a drinking water resource. 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.




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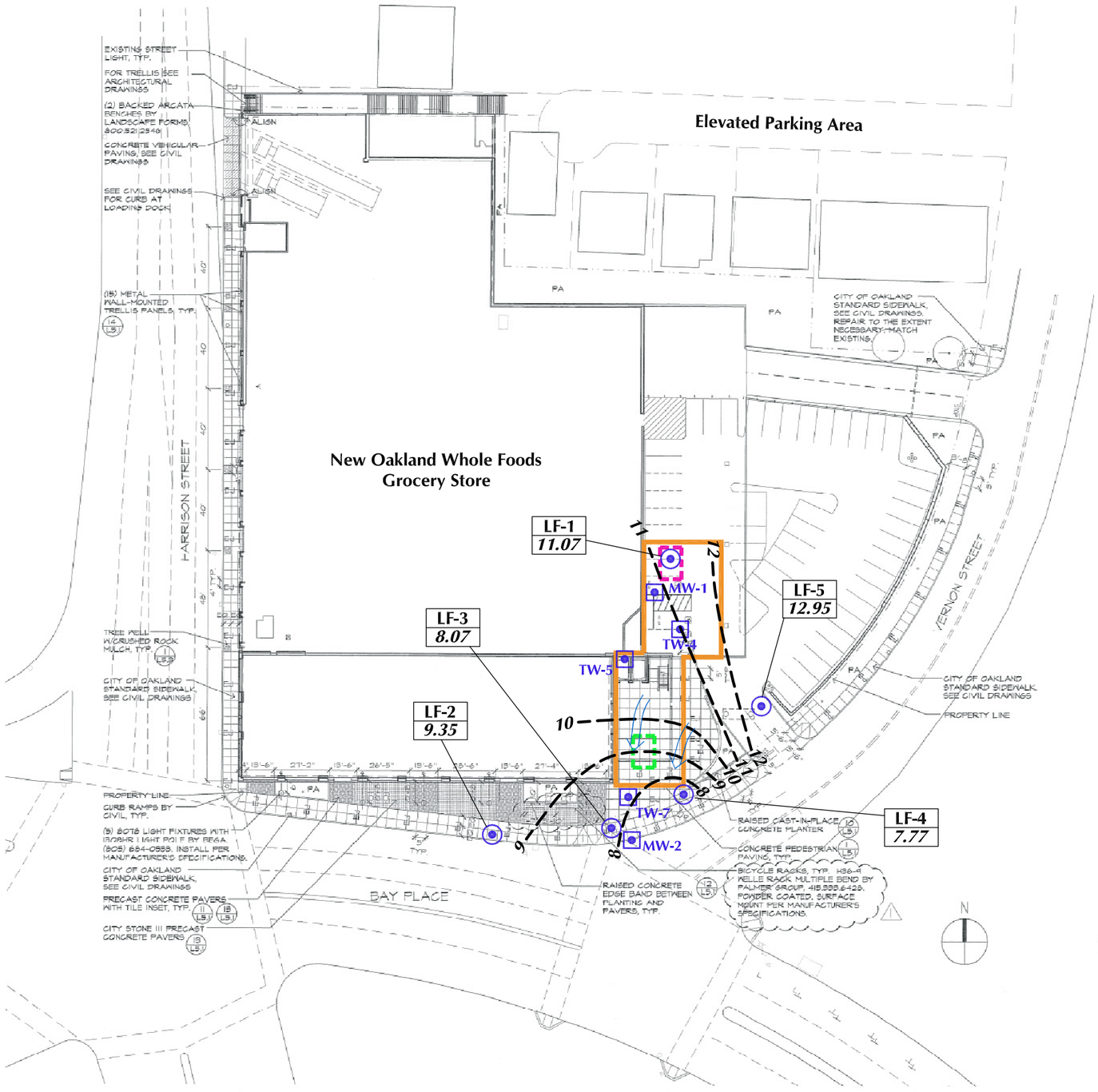
## Site Vicinity Map

Former Cox Cadillac, 230 Bay Place, Oakland, California

LFR

Figure 1




## LAYOUT NOTES

1. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS.

2. VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS.

3. TAKE ALL DIMENSIONS FROM FACE OF CURB, WALL OR BUILDING UNLESS OTHERWISE NOTED. ALL DIMENSIONS CALLED OUT AS "EQUAL" ARE EQUIDISTANT MEASUREMENTS TO DESIGNATED CENTERLINE(S).

4. TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LINE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE.

5. ALL ANGLES TO BE 90 DEGREES AND ALL LINES OF PAVING AND FENCING TO BE PARALLEL UNLESS NOTED OTHERWISE. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.

6. REFERENCE TO NORTH REFERS TO PROJECT NORTH. REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.

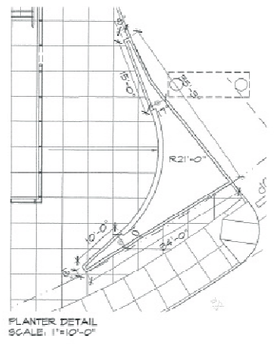
7. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

8. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

9. SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAYS, CURBS, CURB CUTS AND RAMPS, BUILDING SETBACKS AND BENCH MARKS.

## LAYOUT LEGEND

CL.....CENTER LINE
EJ.....EXPANSION JOINT
EQ.....EQUAL
PA.....PLANTING AREA
TYP.....TYPICAL




## EXPLANATION:

- Approximate Limit of Excavation performed in 2005/2006
- Approximate Location of Former Gasoline UST
- Approximate Location of Former Waste Oil UST
- Current Groundwater Monitoring Well
- Previous Well Location
- Groundwater Elevation Contour (Feet/MSL) Dashed where inferred Contour Interval = one foot
- Approximate Groundwater Flow Direction
- LF-1 / 11.07 — Location ID / Groundwater Elevation (Feet/MSL)
- MSL — Mean Sea Level
- UST — Underground Storage Tank
- * — Water level not contoured because well under pressure at time of measurement

0 60 FEET

# Site Map and Shallow Groundwater Elevation Contour Map February 26, 2008

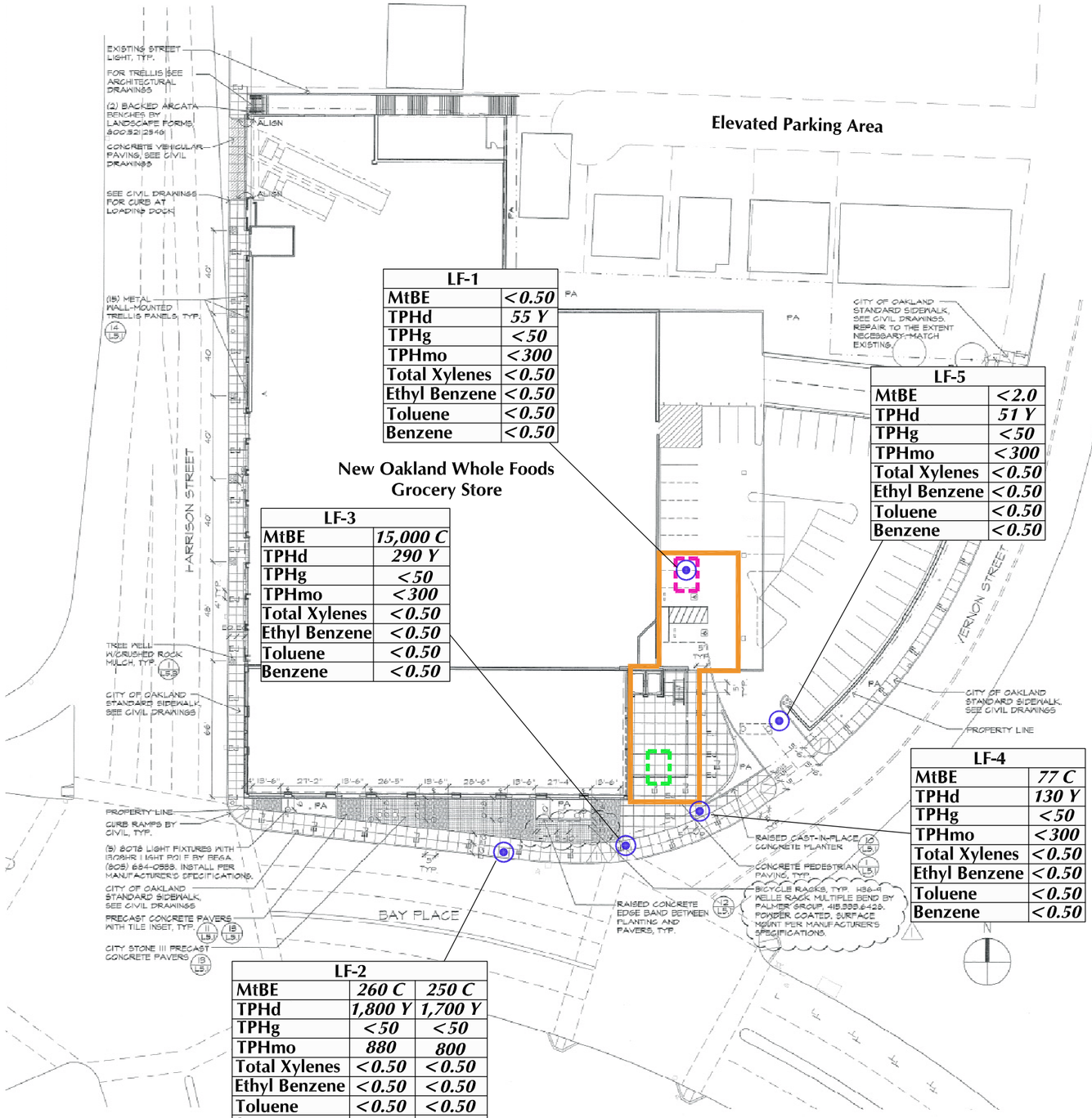
Former Cox Cadillac, 230 Bay Place, Oakland, California

LFR

**Figure 2**

BASEMAP SOURCE: Cliff Lowe Associates

I:\Design\001\09171\17\003\DWG\Site Plan with GWE and Chem Concentrations February 2008.dwg Mar 11,2008-10:06am




| LF-1 | |
|---|---|
| MtBE | <0.50 |
| TPHd | 55 Y |
| TPHg | <50 |
| TPHmo | <300 |
| Total Xylenes | <0.50 |
| Ethyl Benzene | <0.50 |
| Toluene | <0.50 |
| Benzene | <0.50 |

| LF-5 | |
|---|---|
| MtBE | <2.0 |
| TPHd | 51 Y |
| TPHg | <50 |
| TPHmo | <300 |
| Total Xylenes | <0.50 |
| Ethyl Benzene | <0.50 |
| Toluene | <0.50 |
| Benzene | <0.50 |

| LF-3 | |
|---|---|
| MtBE | 15,000 C |
| TPHd | 290 Y |
| TPHg | <50 |
| TPHmo | <300 |
| Total Xylenes | <0.50 |
| Ethyl Benzene | <0.50 |
| Toluene | <0.50 |
| Benzene | <0.50 |

| LF-4 | |
|---|---|
| MtBE | 77 C |
| TPHd | 130 Y |
| TPHg | <50 |
| TPHmo | <300 |
| Total Xylenes | <0.50 |
| Ethyl Benzene | <0.50 |
| Toluene | <0.50 |
| Benzene | <0.50 |

| LF-2 | | |
|---|---|---|
| MtBE | 260 C | 250 C |
| TPHd | 1,800 Y | 1,700 Y |
| TPHg | <50 | <50 |
| TPHmo | 880 | 800 |
| Total Xylenes | <0.50 | <0.50 |
| Ethyl Benzene | <0.50 | <0.50 |
| Toluene | <0.50 | <0.50 |
| Benzene | <0.50 | <0.50 |

## LAYOUT NOTES

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## LAYOUT LEGEND

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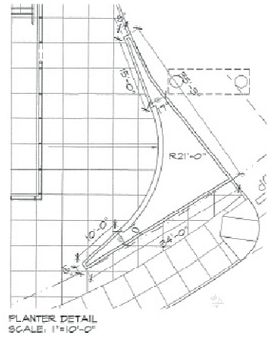
EJ.....EXPANSION JOINT
EQ.....EQUAL
PA.....PLANTING AREA
TYP.....TYPICAL




## EXPLANATION:

- Approximate Limit of Excavation performed in 2005/2006
- Approximate Location of Former Gasoline UST
- Approximate Location of Former Waste Oil UST
- Groundwater Monitoring Well
- UST — Underground Storage Tank

| LF-2 | | |
|---|---|---|
| MtBE | 280 | 250 |
| TPHd | 1,900Y | 2,100Y |
| TPHg | <250 | <130 |
| TPHmo | 900 | 1,100 |
| Total Xylenes | <2.5 | <1.3 |
| Ethyl Benzene | <2.5 | <1.3 |
| Toluene | <2.5 | <1.3 |
| Benzene | <2.5 | <1.3 |

Duplicate Sample
Chemical Concentration in micrograms per liter (µg/L)

**MtBE** methyl tertiary-butyl ether
**TPHd** Total petroleum hydrocarbons as diesel
**TPHg** Total petroleum hydrocarbons as gas
**TPHmo** Total petroleum hydrocarbons as motor oil

***Y*** Sample exhibits chromotographic pattern which does not resemble standard

***C*** Presence confirmed but relative percent difference between columns exceeds 40%

N
0 60 FEET

# Total Petroleum Hydrocarbon and Volatile Organic Compound Concentrations in Shallow Groundwater - February 2008

Former Cox Cadillac, 230 Bay Place, Oakland, California

LFR

**Figure 3**

BASEMAP SOURCE: Cliff Lowe Associates

I:\Design\001\09171\17\003\DWG\Site Plan with TPH VOCs Shallow GW February 2008.dwg Apr 09,2008-2:08pm

# APPENDIX A

## Historical Analytical Data in Groundwater

# Table 2
# Groundwater Analytical Data
# Former Cox Cadillac
# 230 Bay Place
# Oakland, California

## Concentration (µg/L)

| Well Number | Sample Date | | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | | MTBE | | 1,2-DCA | EDB | TAME | TBA | DIPE | ETBE | 1,1-DCA | Dissolved Lead | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 03/03/93 | | 8,500 | 7,500 | 4,400 | 15,000 | 110,000 | | -- | | 350 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 10/13/93 | | 6,100 | 4,800 | 4,000 | 11,000 | 74,000 | | -- | | 350 | 80 | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 12/22/94 | | 18,000 | 11,000 | 2,800 | 16,000 | 110,000 | | -- | | 130 | -- | -- | -- | -- | -- | <1.0 | -- | -- |
| MW-1 | 03/24/95 | | 3,700 | 1,800 | 2,200 | 4,700 | 25,000 | | -- | | 130 | -- | -- | -- | -- | -- | <5.0 | 23 | -- |
| MW-1 | 06/29/95 | | 5,300 | 2,100 | 3,200 | 7,500 | 28,000 | | -- | | 110 | -- | -- | -- | -- | -- | <2.0 | 14 | -- |
| MW-1 | 09/29/95 | | 5,600 | 2,200 | 3,800 | 7,400 | 43,000 | | -- | | 98 | -- | -- | -- | -- | -- | <1.0 | 16 | -- |
| MW-1 | 02/23/96 | | 4,800 | 3,000 | 3,400 | 7,700 | 46,000 | | -- | | 96 | -- | -- | -- | -- | -- | <1.0 | 24 | -- |
| MW-1 | 01/12/99 | | 2,600 | 970 | 2,900 | 5,700 | 39,000 | | 800 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 04/13/99 | | 1,500 | 500 | <50 | 4,000 | 29,000 | | 520 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 07/07/99 | | 1,900 | 870 | 1,600 | 3,900 | 31,000 | | <250 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 10/06/99 | | 2,100 | 910 | 1,800 | 4,400 | 32,000 | | <250 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 01/11/00 | | 52 | 3.9 | 63 | 12 | 2,400 | | <5.0 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 04/06/01 | | 4,300 | 3,200 | 2,600 | 7,300 | 32,000 | | <10 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 07/25/01 | | 2,300 | 1,300 | 2,500 | 6,200 | 24,000 | | <25 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 11/20/01 | | 2,100 | 890 | 2,500 | 3,600 | 33,000 | | <100 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 01/23/02 | | 2,400 | 1,400 | 2,500 | 5,900 | 28,000 | | 350 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 04/26/02 | | 3,200 | 2,400 | 2,700 | 6,300 | 39,000 | | 2,800 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 07/25/02 | | 2,300 | 1,300 | 2,500 | 4,700 | 26,000 | | <500 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-1 | 10/22/02 | | 2,800 | 1,300 | 4,300 | 8,600 | 42,000 | | <10 | | <50 | <50 | <50 | <100 | <50 | <50 | -- | -- | -- |
| MW-1 | 01/27/03 | | 1,600 | 660 | 2,100 | 3,100 | 20,000 | | <20 | | <100 | <100 | <100 | <200 | <100 | <100 | -- | -- | -- |
| MW-1 | 10/22/03 | b | 2,000 | 800 | 1,600 | 2,800 | 22,000 | | <20 | | <20 | <20 | <20 | <200 | <40 | <20 | -- | -- | <1,000 |
| MW-1 | 01/30/04 | | 2,700 | 1,400 | 2,900 | 5,800 | 32,000 | | <25 | | <25 | <25 | <25 | <250 | <50 | <25 | -- | -- | <1,300 |
| MW-2 | 01/12/99 | | 1.5 | <0.50 | <0.50 | <0.50 | <50 | | 2,900 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 04/13/99 | | 0.76 | <0.50 | <0.50 | <0.50 | <50 | | 3,800 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 07/07/99 | | <25 | <25 | <25 | <25 | <2,500 | | 7,000 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 10/06/99 | | 73 | <25 | <25 | <25 | 2,800 | | 300 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 01/11/00 | | 890 | <100 | <100 | <100 | 11,000 | | 8,400 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 04/06/01 | | 210 | <25 | <25 | <25 | 2,800 | | 3,800 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 07/25/01 | | 250 | <12.5 | <12.5 | <12.5 | 3,400 | | 4,200 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 11/20/01 | | 870 | <100 | <100 | 200 | 12,000 | | 8,700 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 01/23/02 | | 100 | <25 | <25 | <25 | 3,900 | | 3,300 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 04/26/02 | | 13 | <0.50 | <0.50 | <1.5 | 90 | | 6,900 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 07/25/02 | | <50 | <50 | <50 | <100 | <5,000 | | 6,600 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-2 | 10/22/02 | | <5.0 | <5.0 | <5.0 | <10 | 7,800 | | 7,000 | | <250 | <250 | <250 | <500 | <250 | <250 | -- | -- | -- |
| MW-2 | 01/27/03 | | 90 | 100 | 60 | 78 | 6,100 | | 6,400 | | <250 | <250 | <250 | <500 | <250 | <250 | -- | -- | -- |
| MW-2 | 10/22/03 | b | <10 | <10 | <10 | <20 | 2,000 | g | 3,000 | | <10 | <10 | <10 | <100 | <20 | <10 | -- | -- | <500 |
| MW-2 | 01/30/04 | | <25 | <25 | <25 | <50 | <2,500 | | 2,100 | | <25 | <25 | <25 | <250 | <50 | <25 | -- | -- | <1,300 |

# Table 2
# Groundwater Analytical Data
# Former Cox Cadillac
# 230 Bay Place
# Oakland, California

Concentration (µg/L)

| Well Number | Sample Date | | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | | MTBE | 1,2-DCA | EDB | TAME | TBA | DIPE | ETBE | 1,1-DCA | Dissolved Lead | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-1 | 10/13/93 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | -- | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | -- |
| 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 04/13/99 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 01/11/00 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 04/06/01 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 07/25/01 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-2 | 04/26/02 | | <0.50 | <0.50 | <0.50 | <1.5 | <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 | b | <0.50 | <0.50 | <0.50 | <1.0 | 53 | g | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <1.0 | <0.50 | -- | -- | <25 |
| 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 | -- | -- | <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 |
| TW-5 | 10/13/93 | | 20,000 | 25,000 | 3,800 | 23,000 | 140,000 | | -- | <100 | <100 | -- | -- | -- | -- | -- | -- | -- |
| TW-5 | 10/03/03 | b | 4,400 | 1,700 | 820 | 2,900 | 21,000 | | <100 | <100 | <100 | <100 | <100 | <200 | <100 | -- | -- | <5,000 |
| TW-6 | 10/14/93 | | 3,800 | 1,600 | 110 | 540 | 4,100 | | -- | <1.0 | <1.0 | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 12/22/94 | | 5,400 | 2,700 | 3,100 | 6,800 | 24,000 | | -- | <1.0 | -- | -- | -- | -- | -- | <1.0 | -- | -- |
| TW-6 | 03/24/95 | | 4,900 | 530 | 270 | 380 | 10,000 | | -- | <2.0 | -- | -- | -- | -- | -- | <2.0 | <3.0 | -- |
| TW-6 | 06/29/95 | | 12,000 | 6,600 | 1,000 | 3,000 | 28,000 | | -- | <1.0 | -- | -- | -- | -- | -- | <1.0 | 4.2 | -- |
| TW-6 | 09/29/95 | | 19,000 | 5,200 | 1,500 | 4,000 | 47,000 | | -- | <1.0 | -- | -- | -- | -- | -- | <1.0 | 3.3 | -- |
| TW-6 | 02/23/96 | | 13,000 | 5,200 | 1,100 | 2,770 | 25,000 | | -- | <1.0 | -- | -- | -- | -- | -- | <1.0 | 5.2 | -- |
| TW-6 | 01/12/99 | | 9,900 | 4,100 | 1,000 | 4,000 | 29,000 | | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 04/13/99 | | 0.70 | <0.50 | <0.50 | 0.62 | <50 | | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 07/07/99 | | 13 | <0.50 | <0.50 | 2.2 | 55 | | 8.1 | a -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 04/06/01 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 2
# Groundwater Analytical Data
# Former Cox Cadillac
# 230 Bay Place
# Oakland, California

Concentration (µg/L)

| Well Number | Sample Date | | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | MTBE | | 1,2-DCA | EDB | TAME | TBA | DIPE | ETBE | 1,1-DCA | Dissolved Lead | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-6 | 07/25/01 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | <5.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 11/20/01 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | <5.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-6 | 01/23/02 | | <0.50 | <0.50 | <0.50 | <0.50 | <50 | <5.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | <1 | <50 | <5.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | <5.0 | -- | -- | -- |
| 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 | -- | -- | -- |
| 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 | | <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 | -- | | <50 | <50 | -- | -- | -- | -- | -- | -- | -- |
| TW-7 | 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 | -- |
| TW-7 | 09/29/95 | | 32,000 | 8,700 | 2,900 | 8,600 | 74,000 | -- | | <1.0 | -- | -- | -- | -- | -- | <1.0 | 3.5 | -- |
| TW-7 | 02/23/96 | | 22,000 | 8,400 | 2,700 | 6,900 | 50,000 | -- | | <5.0 | -- | -- | -- | -- | -- | <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 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-7 | 07/07/99 | | 8,000 | 4,500 | 1,200 | 3,500 | 42,000 | 2,200 | a | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-7 | 11/20/01 | | 6,400 | 1,100 | 1,000 | 2,400 | 26,000 | 1,600 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 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 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TW-7 | 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 | <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 | b | 2,900 | 130 | 310 | 370 | 13,000 | 660 | | <13 | <13 | <13 | <130 | <25 | <13 | -- | -- | <630 |
| TW-7 | 01/30/04 | | 2,500 | 520 | 1,900 | 550 | 16,000 | 300 | | <25 | <25 | <25 | <250 | <50 | <25 | -- | -- | <1,300 |

# Table 2
# Groundwater Analytical Data
# Former Cox Cadillac
# 230 Bay Place
# Oakland, California

Concentration (µg/L)

| Well Number | Sample Date | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | MTBE | 1,2-DCA | EDB | TAME | TBA | DIPE | ETBE | 1,1-DCA | Dissolved Lead | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Notes:

TPHg - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tertiary butyl ether
DCA - Dichloroethane
EDB - Ethylene dibromide
TAME - Tertiary amyl methyl ether
TBA - Tertiary butyl alcohol
DIPE - Di-isopropyl ether
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 gasoline standard.

# APPENDIX B

## Laboratory Analytical Reports

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | | |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Batch#: | 134697 | | |

| | | | |
|---|---|---|---|
| Field ID: | LF-5 | Diln Fac: | 1.000 |
| Type: | SAMPLE | Analyzed: | 02/11/08 |
| Lab ID: | 201018-002 | | |

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | ND | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 102 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 109 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 90 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 95 | 65-143 | EPA 8021B |

| | | | |
|---|---|---|---|
| Field ID: | LF-4 | Diln Fac: | 1.000 |
| Type: | SAMPLE | Analyzed: | 02/11/08 |
| Lab ID: | 201018-003 | | |

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | 77 C | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 115 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 119 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 101 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 105 | 65-143 | EPA 8021B |

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | | |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Batch#: | 134697 | | |

Field ID: LF-3 Lab ID: 201018-004
Type: SAMPLE

| Analyte | Result | RL | Diln Fac | Analyzed | Analysis |
|---|---|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | 1.000 | 02/11/08 | EPA 8015B |
| MTBE | 15,000 C | 100 | 50.00 | 02/12/08 | EPA 8021B |
| Benzene | ND | 0.50 | 1.000 | 02/11/08 | EPA 8021B |
| Toluene | ND | 0.50 | 1.000 | 02/11/08 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | 1.000 | 02/11/08 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | 1.000 | 02/11/08 | EPA 8021B |
| o-Xylene | ND | 0.50 | 1.000 | 02/11/08 | EPA 8021B |

| Surrogate | %REC | Limits | Diln Fac | Analyzed | Analysis |
|---|---|---|---|---|---|
| Trifluorotoluene (FID) | 91 | 69-140 | 1.000 | 02/11/08 | EPA 8015B |
| Bromofluorobenzene (FID) | 92 | 73-144 | 1.000 | 02/11/08 | EPA 8015B |
| Trifluorotoluene (PID) | 74 | 60-146 | 1.000 | 02/11/08 | EPA 8021B |
| Bromofluorobenzene (PID) | 82 | 65-143 | 1.000 | 02/11/08 | EPA 8021B |

Field ID: LF-2 Diln Fac: 1.000
Type: SAMPLE Analyzed: 02/11/08
Lab ID: 201018-005

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | 260 C | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 78 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 81 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 70 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 72 | 65-143 | EPA 8021B |

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | | |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Batch#: | 134697 | | |

| | | | |
|---|---|---|---|
| Field ID: | LF-2-D | Diln Fac: | 1.000 |
| Type: | SAMPLE | Analyzed: | 02/11/08 |
| Lab ID: | 201018-006 | | |

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | 270 C | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 79 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 85 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 69 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 72 | 65-143 | EPA 8021B |

| | | | |
|---|---|---|---|
| Field ID: | LF-1 | Diln Fac: | 1.000 |
| Type: | SAMPLE | Analyzed: | 02/11/08 |
| Lab ID: | 201018-007 | | |

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | ND | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 107 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 112 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 95 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 101 | 65-143 | EPA 8021B |

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | | |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Batch#: | 134697 | | |

| | | | |
|---|---|---|---|
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC427761 | Analyzed: | 02/11/08 |

| Analyte | Result | RL | Analysis |
|---|---|---|---|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| MTBE | ND | 2.0 | EPA 8021B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|---|---|---|---|
| Trifluorotoluene (FID) | 115 | 69-140 | EPA 8015B |
| Bromofluorobenzene (FID) | 114 | 73-144 | EPA 8015B |
| Trifluorotoluene (PID) | 103 | 60-146 | EPA 8021B |
| Bromofluorobenzene (PID) | 102 | 65-143 | EPA 8021B |

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC427762 | Batch#: | 134697 |
| Matrix: | Water | Analyzed: | 02/11/08 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 1,000 | 949.1 | 95 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 128 | 69-140 |
| Bromofluorobenzene (FID) | 126 | 73-144 |

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | Analysis: | EPA 8021B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC427763 | Batch#: | 134697 |
| Matrix: | Water | Analyzed: | 02/11/08 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| MTBE | 10.00 | 9.929 | 99 | 70-129 |
| Benzene | 10.00 | 9.904 | 99 | 80-120 |
| Toluene | 10.00 | 9.214 | 92 | 80-120 |
| Ethylbenzene | 10.00 | 8.782 | 88 | 80-120 |
| m,p-Xylenes | 10.00 | 8.884 | 89 | 80-120 |
| o-Xylene | 10.00 | 8.953 | 90 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (PID) | 98 | 60-146 |
| Bromofluorobenzene (PID) | 100 | 65-143 |

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09171-17 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 134697 |
| MSS Lab ID: | 200998-002 | Sampled: | 02/05/08 |
| Matrix: | Water | Received: | 02/06/08 |
| Units: | ug/L | Analyzed: | 02/12/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC427764

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 48.55 | 2,000 | 1,606 | 78 | 67-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 116 | 69-140 |
| Bromofluorobenzene (FID) | 105 | 73-144 |

Type: MSD Lab ID: QC427765

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,564 | 76 | 67-120 | 3 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 106 | 69-140 |
| Bromofluorobenzene (FID) | 93 | 73-144 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09171-17 | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Diln Fac: | 1.000 | Prepared: | 02/09/08 |
| Batch#: | 134651 | | |

Field ID: LF-5 Lab ID: 201018-002
Type: SAMPLE Analyzed: 02/12/08

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 51 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 72 | 63-130 |

Field ID: LF-4 Lab ID: 201018-003
Type: SAMPLE Analyzed: 02/12/08

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 130 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 73 | 63-130 |

Field ID: LF-3 Lab ID: 201018-004
Type: SAMPLE Analyzed: 02/12/08

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 290 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 81 | 63-130 |

Field ID: LF-2 Lab ID: 201018-005
Type: SAMPLE Analyzed: 02/12/08

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1,800 Y | 50 |
| Motor Oil C24-C36 | 880 | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 75 | 63-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09171-17 | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 02/06/08 |
| Units: | ug/L | Received: | 02/06/08 |
| Diln Fac: | 1.000 | Prepared: | 02/09/08 |
| Batch#: | 134651 | | |

| | | | |
|---|---|---|---|
| Field ID: | LF-2-D | Lab ID: | 201018-006 |
| Type: | SAMPLE | Analyzed: | 02/12/08 |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1,700 Y | 50 |
| Motor Oil C24-C36 | 800 | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 86 | 63-130 |

| | | | |
|---|---|---|---|
| Field ID: | LF-1 | Lab ID: | 201018-007 |
| Type: | SAMPLE | Analyzed: | 02/12/08 |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 55 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 78 | 63-130 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 02/11/08 |
| Lab ID: | QC427591 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 63-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

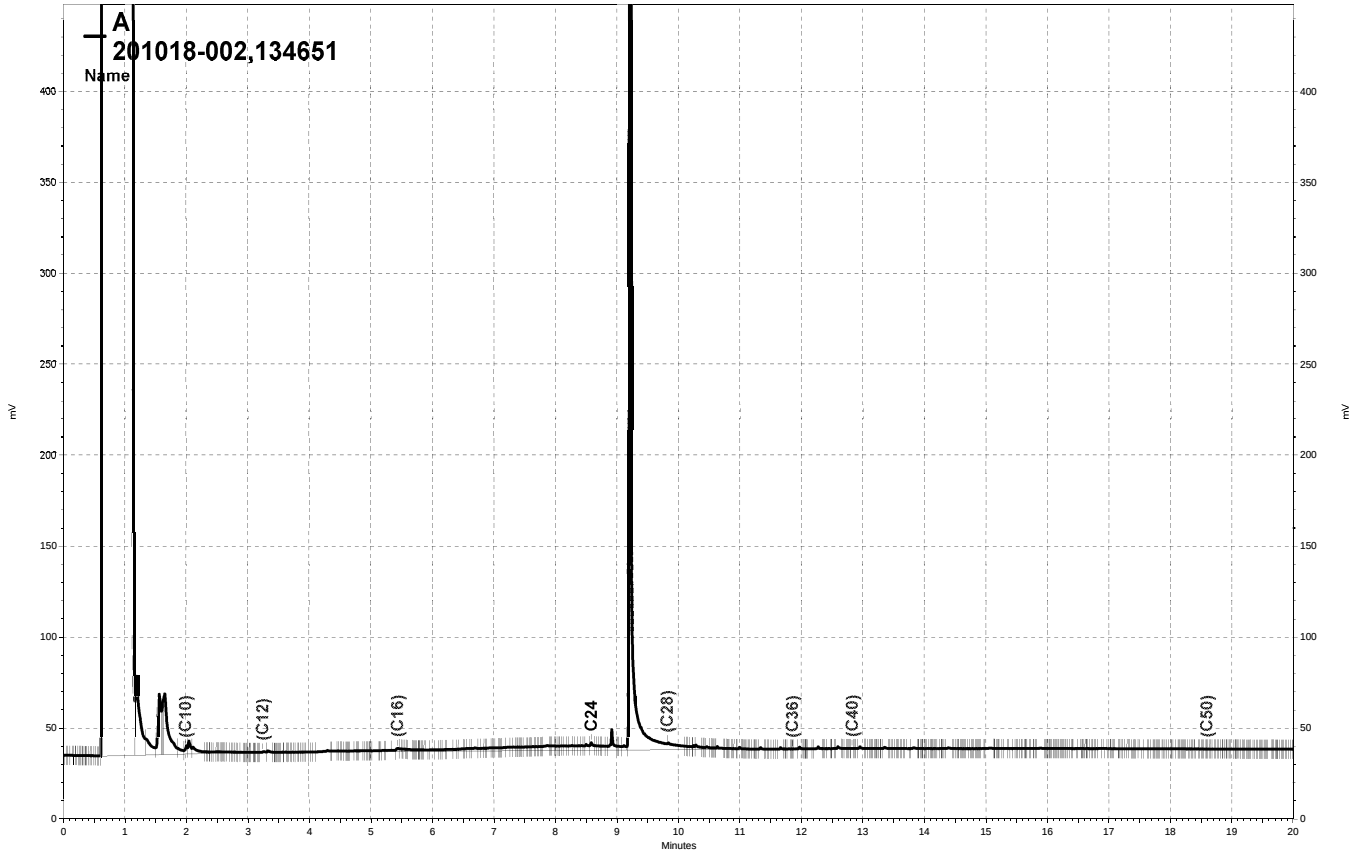
## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 201018 | Location: | Cox Cadillac |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09171-17 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC427744 | Batch#: | 134651 |
| Matrix: | Water | Prepared: | 02/09/08 |
| Units: | ug/L | Analyzed: | 02/11/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 5,000 | 3,607 | 72 | 61-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 88 | 63-130 |

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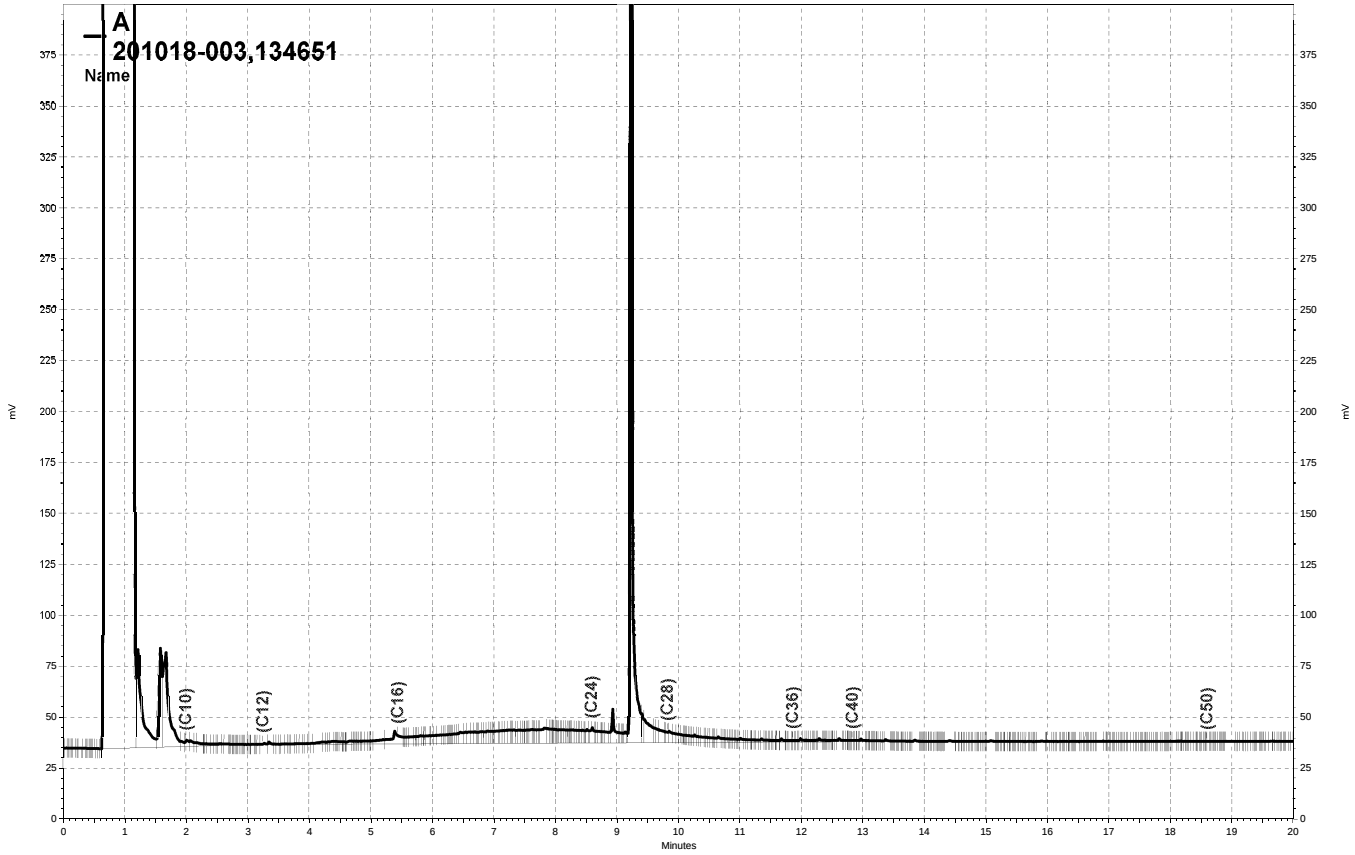


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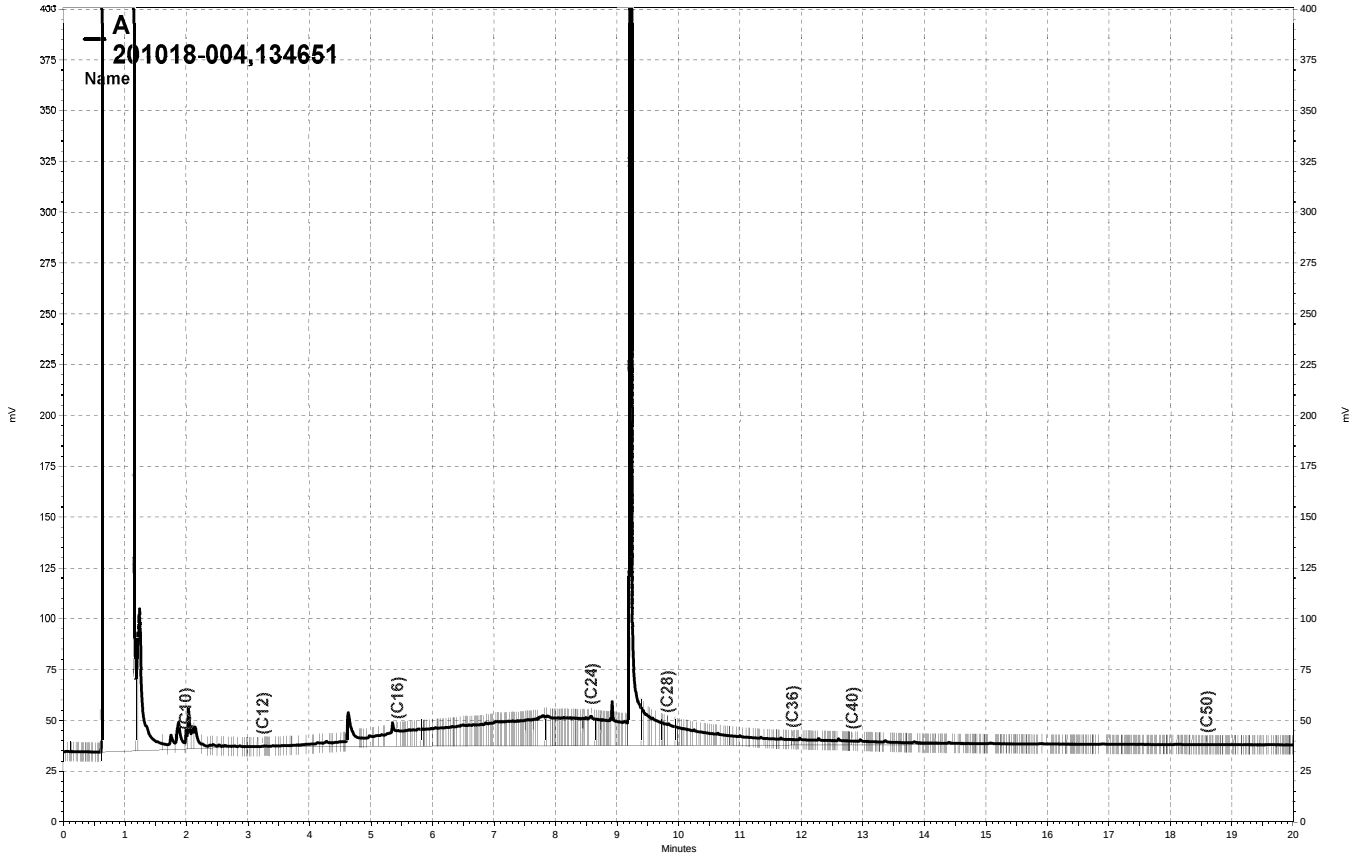


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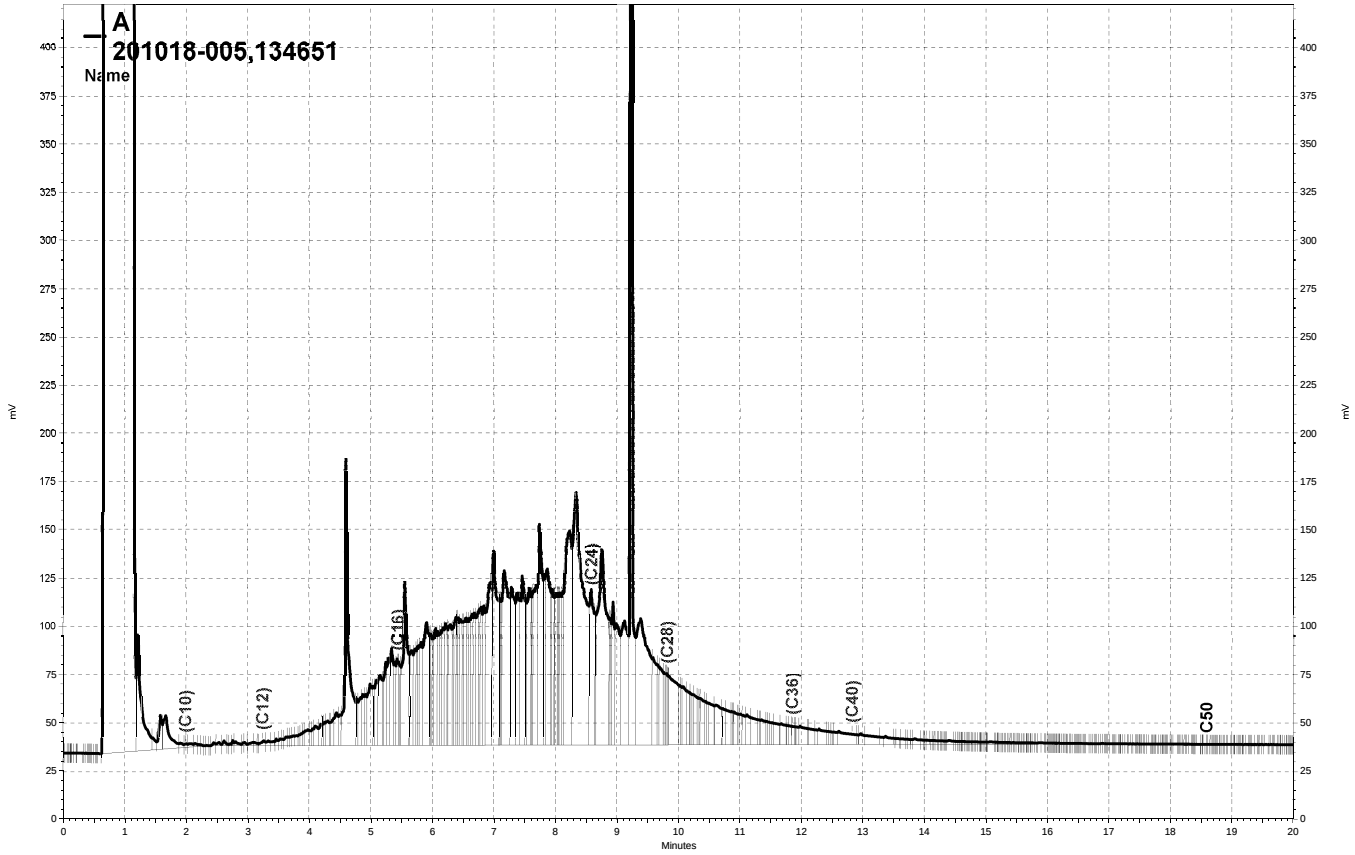


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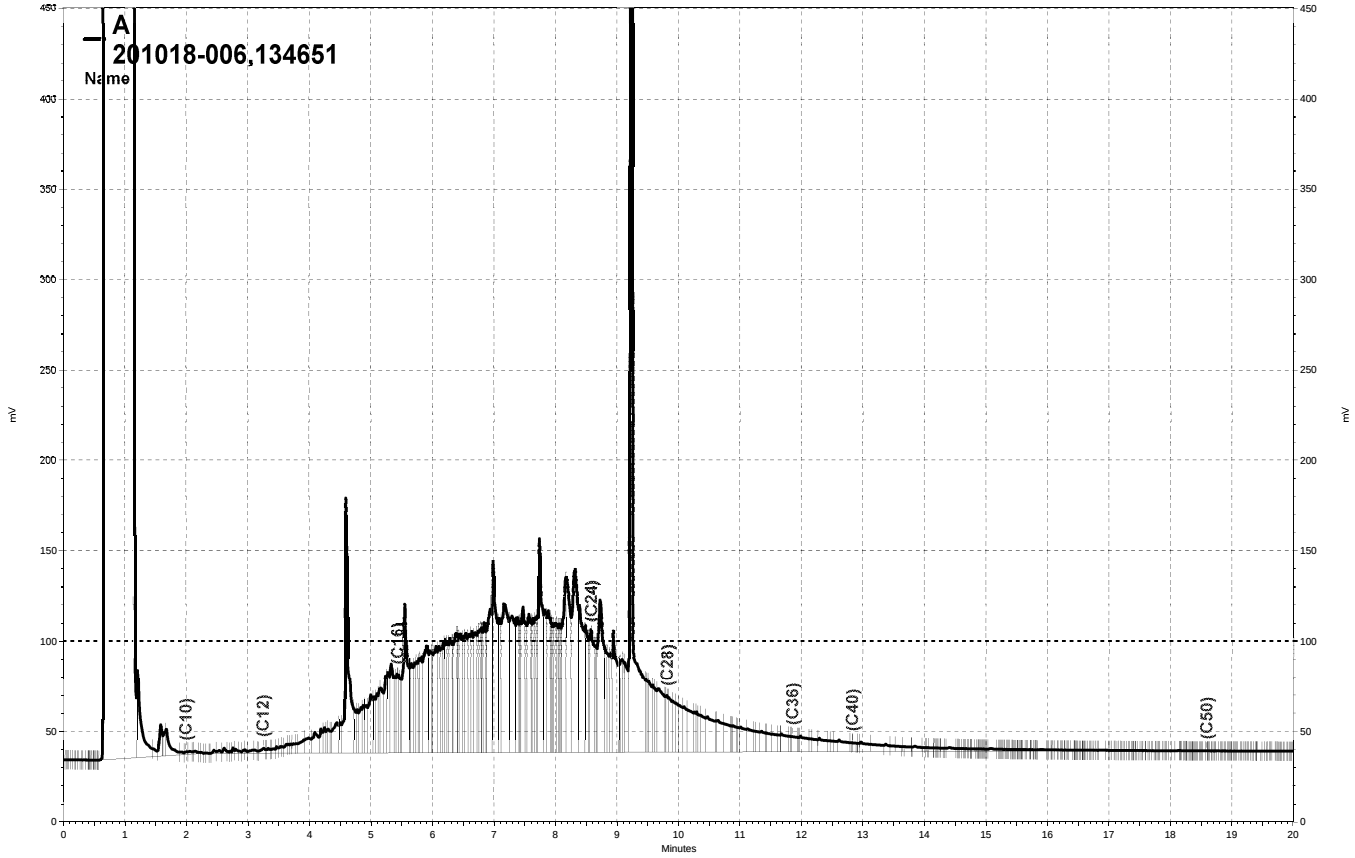


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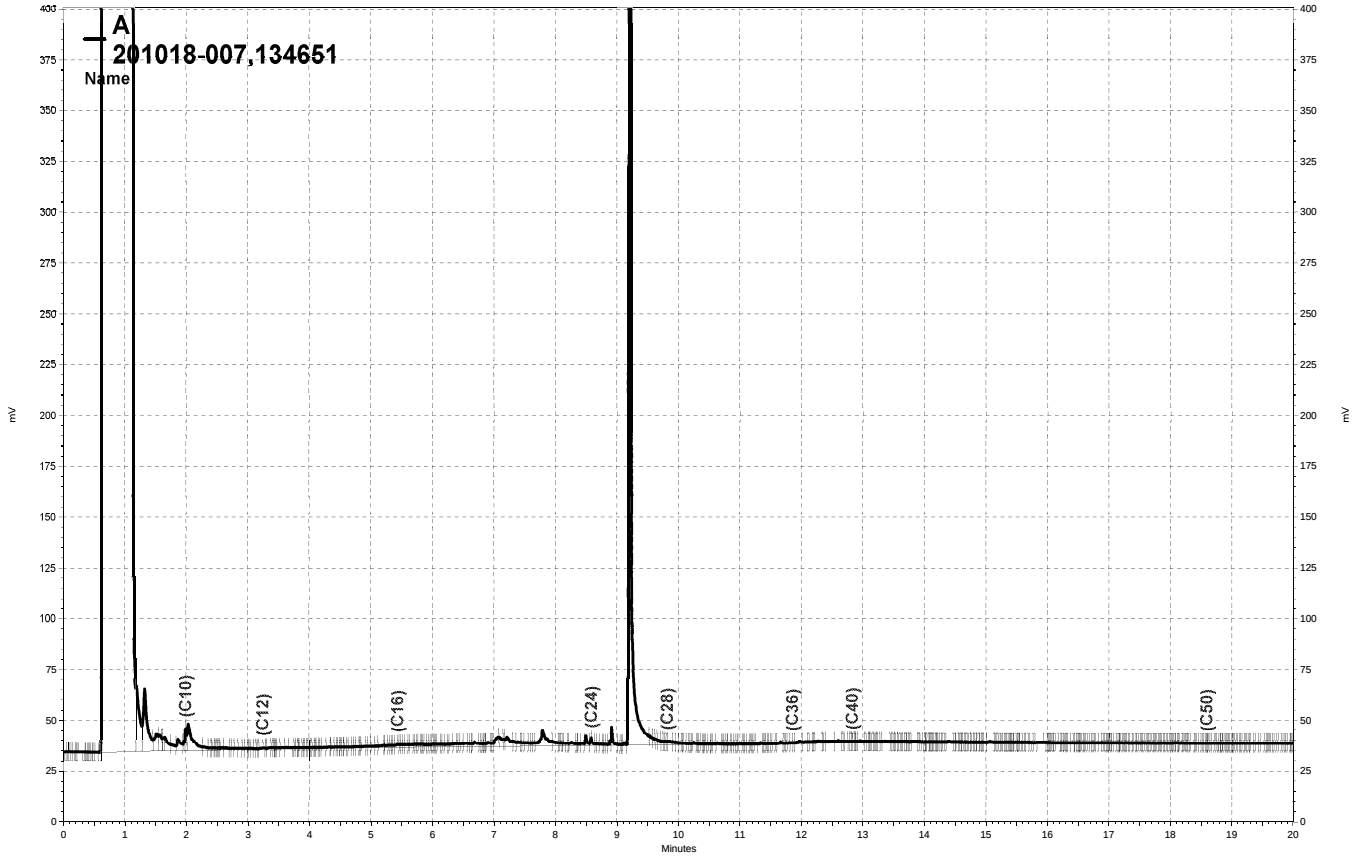


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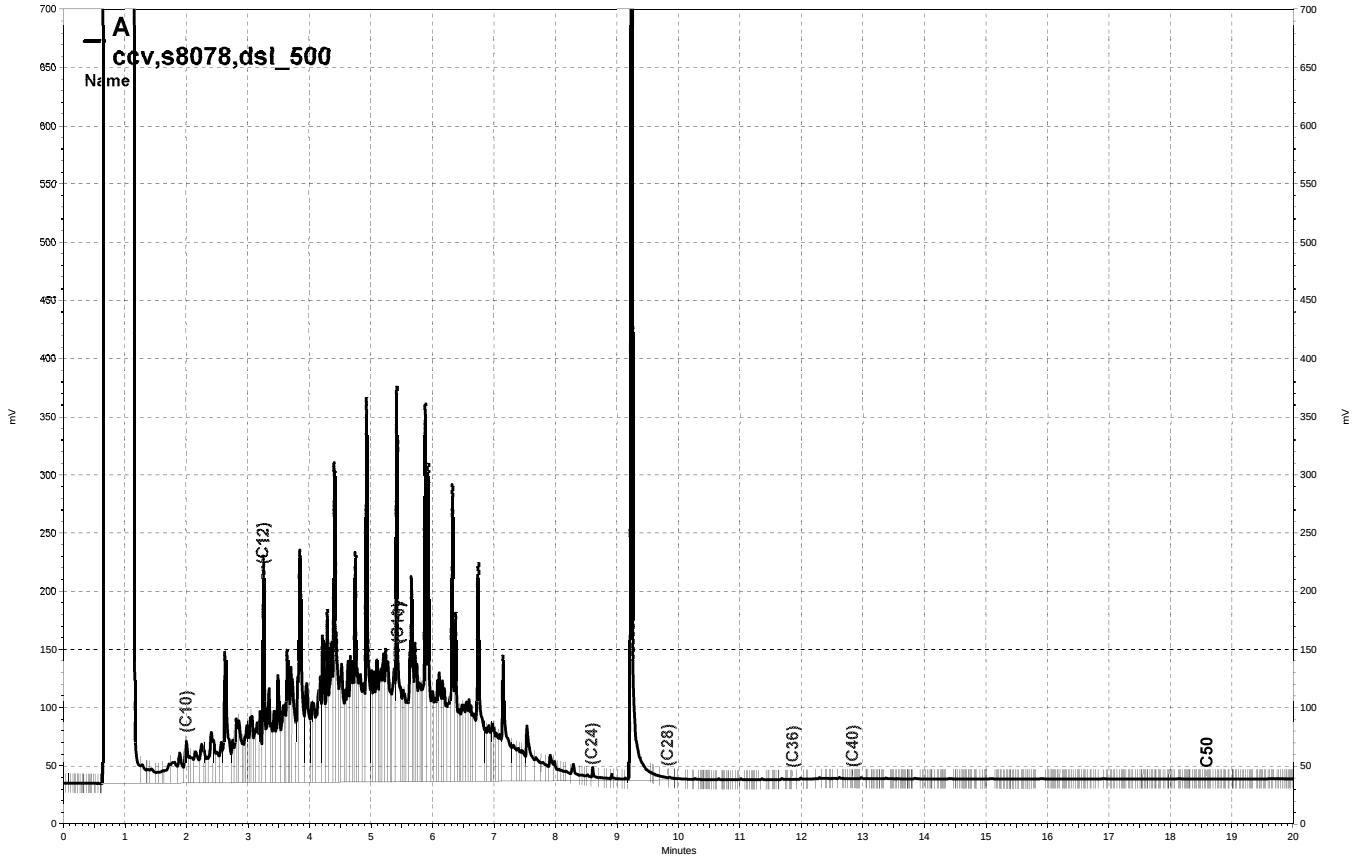


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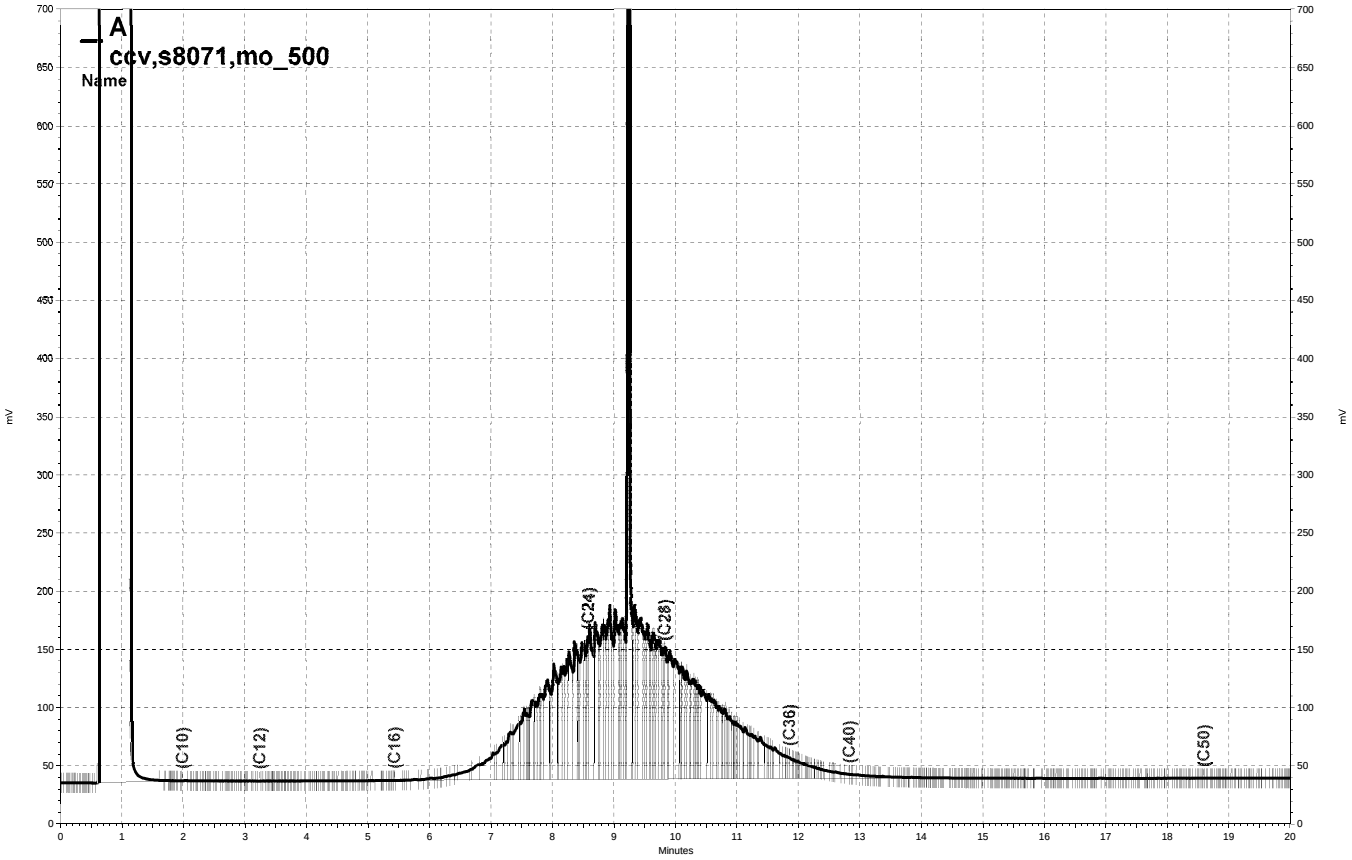


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