ExxonMobil
Environmental Services Company
4096 Piedmont Avenue #194
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Jennifer C. Sedlachek
Project Manager

ExxonMobil

April 12, 2012

Ms. Barbara Jakub, P.G.
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Exxon RAS #79374/990 San Pablo Avenue, Albany, California.

Dear Ms. Jakub:

Attached for your review and comment is a copy of the letter report entitled ***Well Installation Report,*** dated April 12, 2012, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details activities pertaining to the subject site.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: Cardno ERI's ***Well Installation Report,*** dated April 12, 2012

cc: w/ attachment
Ms. Muriel T. Blank, Trustee, The Blank Family Trusts
Reverend Deborah Blank, Trustee, The Blank Family Trusts
Ms. Marcia Blank Kelly, The Blank Family Trusts

w/o attachment
Ms. Paula Sime, Cardno ERI

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April 12, 2012
Cardno ERI 2735C.R03

Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services
4096 Piedmont Avenue #194
Oakland, California 94611

SUBJECT **Well Installation Report**
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Alameda County Department of Environmental Health RO No. 2974

Ms. Sedlachek:

At the request of ExxonMobil Environmental Services (EMES), on behalf of Exxon Mobil Corporation, Cardno ERI installed AS and SVE wells at the subject site in preparation for an AS/SVE test to evaluate the feasibility of AS and SVE as remediation technologies to remove hydrocarbons from soil and groundwater and to obtain engineering data for potential future remediation activities. The work was performed in accordance with the *Work Plan for Air Sparge and Soil Vapor Extraction Well Installation and Feasibility Testing* (Work Plan), dated July 5, 2011 (Cardno ERI, 2011b), approved by Alameda County Department of Environmental Health (the County), in a letter dated December 14, 2011 (Appendix A). Additionally, Cardno ERI installed monitoring well MW3A near well MW3 with a screened interval targeting the zone of maximum hydrocarbon concentrations, as directed by the County in the aforementioned letter. Based on the results of the investigation, Cardno ERI concludes that the data is consistent with previous investigations and recommends the evaluation of remediation alternatives and further off-site investigation. Results of the feasibility testing will be submitted under separate cover.

SITE DESCRIPTION

Former Exxon Service Station 79374 is located at 990 San Pablo Avenue, on the northwestern corner of the intersection of Buchanan Street and San Pablo Avenue, Albany, California (Plate 1). The site is currently occupied by a retail outlet for Benjamin Moore paints and painting products and associated paved asphalt driveway and parking area. The surrounding areas consist of residential and commercial properties (Plate 2). A Shell Service Station and an Atlantic Richfield Company Service Station (Arco) are located approximately 350 feet and 500 feet, respectively, south-southeast of the site.

According to City of Albany building permits issued in 1951, a service station owned by Signal Oil Company occupied the site. Humble Oil company acquired the site in approximately 1967 from Standard Oil Company of California (Chevron) rebranding the site as an Enco station. The station was rebranded as an Exxon service station in 1972. The service station was demolished in 1983; during demolition activities, one used-oil UST and four gasoline USTs were removed and the tank cavity was backfilled with sand to 90% compaction (City of Albany permit 82-0708).

Cardno ERI reviewed eight historical aerial photographs of the site and vicinity dated between September 6, 1949, and June 21, 1983. Based on these photographs, the dispenser islands were most likely located beneath the station canopy on the north side of the site and the former USTs were most likely located on the south side of the site, east of the station's service bays. The location of the former used-oil UST is not apparent. The approximate locations of the former dispenser island and UST cavity are shown on Plate 3.

GEOLOGY AND HYDROGEOLOGY

The site lies at an approximate elevation of 40 feet above msl, and the local topography slopes toward the southwest. The site is located along the eastern margin of the San Francisco Bay within the East Bay Plain (Hickenbottom and Muir, 1988). The surficial deposits in the site vicinity are mapped as Holocene alluvial fan and fluvial deposits (Graymer, 2000). The site is located approximately 1,630 feet north-northwest of Cordornices Creek. The active northwest trending Hayward fault is located approximately 1½ mile northeast of the site.

The East Bay Plain is regionally divided into two major groundwater basins: the San Pablo and the San Francisco Basin. These basins are tectonic depressions that are filled primarily with a sequence of coalescing alluvial fans. The San Francisco Basin is further divided into seven sub-areas. The site is located in the Berkeley Sub-Area, which is filled primarily by alluvial deposits that range from 10 to 300 feet thick with poorly defined aquitards (CRWQCB, 1999). Under natural conditions, the direction of groundwater flow in the East Bay Plain is east to west.

Soil borings indicate that the soil beneath the site consists predominantly of silt and clay with an apparently continuous coarse-grained unit 2 to 8 feet thick encountered between approximately 8 and 20 feet bgs (EC&A, 2008; Cardno ERI, 2011a). CPT borings indicate the presence of predominantly silt and clay between approximately 20 and 60 feet bgs, the maximum depth explored. Minor coarse-grained layers up to 3 feet thick are interbedded with the silts and clays. During the groundwater monitoring events conducted to date, the DTW ranged from approximately 5 to 9 feet bgs. During the four groundwater monitoring events conducted through fourth quarter 2011, the groundwater flow direction has been variable. The distribution of dissolved-phase hydrocarbons suggests that the dominant groundwater flow direction is towards the west (Cardno ERI, 2011c).

PREVIOUS WORK

Cumulative groundwater monitoring and sampling data are presented in Tables 1A and 1B. Cumulative results of soil samples collected at the site are presented in Tables 2A and 2B. Well construction details are presented in Table 3.

Fueling System Activities

In 1983, one used-oil UST and four gasoline USTs were removed and the tank cavity was backfilled with sand to 90% compaction (City of Albany).

Site Assessment Activities

Six exploratory borings (B1 through B6) were advanced on site in 2008 (EC&A, 2008). Maximum concentrations of TPHg, TPHd, and benzene were reported in the soil samples collected at 10.5 feet bgs from borings B1 and B2 located near the former USTs. Grab groundwater results indicated maximum dissolved-phase TPHg, TPHd, and benzene concentrations in the samples collected from soil borings B1 and B2 located near the former USTs. The laboratory reported an immiscible sheen present in the groundwater samples collected from borings B1 and B2.

Monitoring wells MW1 through MW6 and borings CPT1/HP1 and CPT2/HP2 were installed at the site in 2010 (Cardno ERI, 2011a). Maximum concentrations of TPHg and TPHd in soil were reported in the samples collected at 10.5 feet bgs from wells MW3 and MW5, west of the former USTs. Dissolved-phase hydrocarbons were adequately delineated vertically at the site with petroleum hydrocarbon concentrations absent or near the laboratory reporting limits in the deeper water-bearing zones.

Remediation Activities

No documented remedial activities have been performed at the site. According to City of Albany permit 82-0708, the USTs were removed and backfilled in 1983. It is unknown if overexcavation was performed during the UST removal.

Groundwater Monitoring Activities

Groundwater monitoring was initiated at the site in 2010 with the installation of wells MW1 through MW6. Results of groundwater monitoring have indicated maximum dissolved-phase TPHg and benzene concentrations in groundwater samples of 23,000 µg/L and 650 µg/L, respectively. Maximum dissolved-phase TPHg and benzene are primarily west of the former USTs.

FIELD ACTIVITIES

Cardno ERI performed the fieldwork in accordance with the Work Plan, Cardno ERI's standard field protocol (Appendix B), a site-specific health and safety plan, and applicable regulatory guidelines under the advisement of a professional geologist.

Pre-Field Activities

Prior to field activities, Cardno ERI obtained drilling permits from the County (Appendix C), notified Underground Service Alert, and contracted a private utility-locating company to locate underground utilities at the site. From January 16 to 17, 2012, Cardno ERI observed Cascade Drilling, L.P. (Cascade) clear well locations for SVE wells SVE1 through SVE3, monitoring well MW3A, and AS well AS1 to depths between 5 and 8 feet bgs, using air and hand tools.

Air Sparge and Soil Vapor Extraction Wells

From January 17 to 18, 2012, Cardno ERI observed Cascade install wells SVE1 through SVE3, AS1, and MW3A. Select soil samples were preserved for laboratory analysis.

Wells SVE1 through SVE3 and MW3A were completed as 4-inch schedule 40 PVC wells with 10 feet of 0.020 inch slotted screens from 5 to 15 feet bgs. Well AS1 was completed as a 1-inch schedule 80 PVC well with 3 feet of stainless steel #60 mesh screen from 10.25 to 13.5 bgs. Well construction details are presented on the boring logs in Appendix D and on Table 3.

Well Development

On January 26 and 27, 2012, Cardno ERI observed Cascade develop wells SVE1 through SVE3 and MW3A. Well development records are included in Appendix E.

Laboratory Analyses

Cardno ERI submitted soil samples for analysis to a state-certified laboratory. Laboratory analytical reports and COC records are provided in Appendix F. Cumulative soil sample analytical data is summarized in Table 2A and 2B.

Waste Management Plan

The decontamination rinsate water and drill cuttings were temporarily stored on site in DOT-approved, sealed 55-gallon drums. Upon characterization of the waste, the drums were transported to EMES-approved disposal facilities. Copies of the waste documentation for the disposal of soil and water are included in Appendix G. The water disposal documentation includes approximately 40 gallons of water generated during feasibility testing.

Site Survey

On February 6, 2012, Cardno ERI observed Morrow Surveying, of West Sacramento, California, survey the locations and elevations of the newly-installed wells. The survey report is included in Appendix H.

RESULTS OF INVESTIGATION

Site Geology

Sediments observed during the advancement of wells AS1, MW3A, and SVE1 through SVE3 consist largely of silty sand and clayey sand, with clays and gravels also present to 15.5 feet bgs, the maximum depth explored. A laterally extensive sand unit of varying thickness appears to underlie the entire site at approximately 10.5 feet bgs. Fill material was encountered in the boring for well SVE3 (located in the former UST pit) to approximately 7 feet bgs. Groundwater was encountered at between approximately 7.4 and 10.5 feet bgs.

Hydrocarbons in Soil

Concentrations of TPHmo, TPHd, TPHg, toluene, ethylbenzene, and total xylenes were reported in soil samples collected during this investigation (Table 2A; Plate 3). Maximum concentrations of hydrocarbons were encountered between approximately 10 and 12.5 feet bgs.

CONCLUSIONS

Residual hydrocarbon concentrations reported during this investigation are consistent with previous findings. Maximum residual hydrocarbon concentrations occur near the former USTs at approximately 10 feet bgs. Residual concentrations attenuate with depth and are adequately delineated by approximately 15 feet bgs.

Dissolved-phase hydrocarbons are currently not delineated at the site.

RECOMMENDATIONS

Cardno ERI recommends the evaluation of remediation alternatives as well as off-site assessment of hydrocarbons in soil and groundwater.

Cardno ERI recommends performing semi-annual monitoring and sampling during the second and fourth quarters pending the onset of active remediation.

CONTACT INFORMATION

The responsible party contact is Ms. Jennifer C. Sedlachek, ExxonMobil Environmental Services, 4096 Piedmont Avenue #194, Oakland, California, 94611. The consultant contact is Ms. Rebekah Westrup, Cardno ERI, 601 N. McDowell Boulevard, Petaluma, California, 94954. The agency contact is Ms. Barbara Jakub, Alameda County Environmental Health Department, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502.

LIMITATIONS

For any documents cited that were not generated by Cardno ERI, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno ERI does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document was prepared in accordance with generally accepted standards of environmental, geological and engineering practices in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Ms. Rebekah A. Westrup, Cardno ERI's project manager for this site, at (707) 766-2000 or rebekah.westrup@cardno.com with any questions or comments regarding this report.

Sincerely,

SCANNED IMAGE

SCANNED IMAGE

PROFESSIONAL GEOLOGIST
DAVID RICHARD DANIELS
No. 8737
EXP. 7/31/13
STATE OF CALIFORNIA

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Ms. Muriel T. Blank, Trustee, The Blank Family Trusts, 1164 Solano Avenue, #406, Albany, California, 94706

Reverend Deborah Blank, Trustee, The Blank Family Trusts, 1563 Solano Avenue, #344, Berkeley, California, 94707

Ms. Marcia Blank, Trustee, The Blank Family Trusts, 641 SW Morningside Road, Topeka, Kansas, 66606

Enclosures:

References

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Local Area Map
Plate 3	Select Analytical Results

Table 1A	Cumulative Groundwater Monitoring and Sampling Data
Table 1B	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2A	Cumulative Soil Analytical Results
Table 2B	Additional Cumulative Soil Analytical Results – HVOCs
Table 3	Well Construction Details

Appendix A	Correspondence
Appendix B	Field Protocol
Appendix C	Permits
Appendix D	Boring Logs
Appendix E	Well Development Records
Appendix F	Laboratory Reports
Appendix G	Waste Disposal Documentation
Appendix H	Survey Data

REFERENCES

California Regional Water Quality Control Board San Francisco Bay Region Groundwater Committee (CRWQCB). June 1999. *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA.*

City of Albany. March 28, 1983. Building Permit 82-0708.

Cardno ERI. February 28, 2011a. *Site Assessment Report, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California , Alameda County #RO00002974.*

Cardno ERI. July 5, 2011b. *Work Plan for Air Sparge and Soil Vapor Extraction Well Installation and Feasibility Testing, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California , Alameda County #RO00002974.*

Cardno ERI. November 18, 2011c. *Groundwater Monitoring Report, Fourth Quarter 2011, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California , Alameda County #RO00002974.*

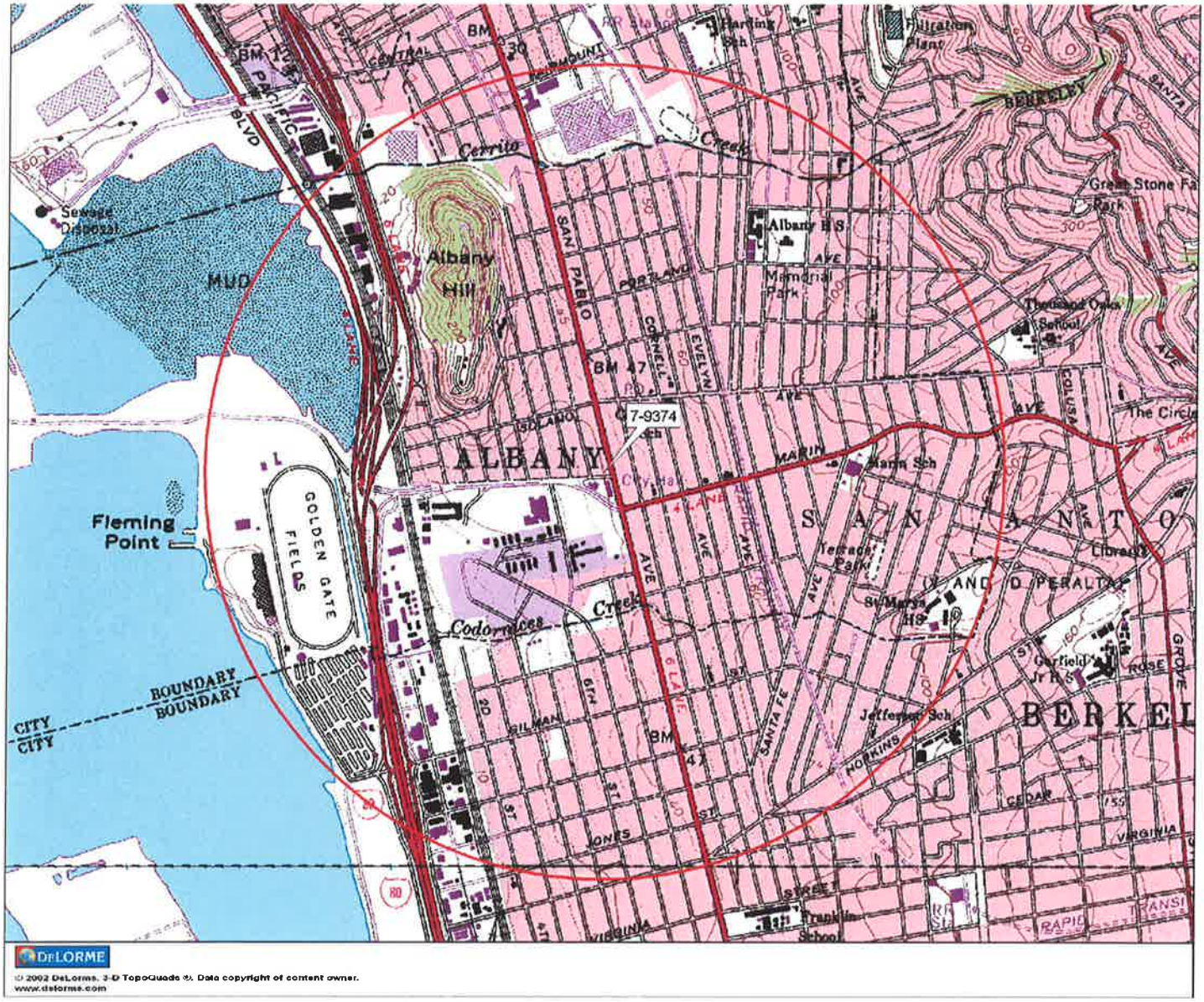
Edd Clark & Associates (EC&A). January 31, 2008. *Report of Phase II Environmental Assessment, 990 San Pablo Avenue, Albany, California 94706.* EC&A Project No 0589,002.07.

Graymer, R.W. 2000. Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California. USGS, Miscellaneous Field Studies MF-2342.

Hickenbottom, Kelvin and Muir, Kenneth S. June 1988. *Geohydrogeology and Groundwater Quality Overview of the East Bay Plain Area, Alameda County, CA.* Alameda County Flood Control and Water Conservation District. 83p.

ACRONYM LIST

µg/L	Micrograms per liter
µs	Microsiemens
1,2-DCA	1,2-dichloroethane
acfm	Actual cubic feet per minute
AS	Air sparge
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CEQA	California Environmental Quality Act
cfm	Cubic feet per minute
COC	Chain of Custody
CPT	Cone Penetration (Penetrometer) Test
DIPE	Di-isopropyl ether
DO	Dissolved oxygen
DOT	Department of Transportation
DPE	Dual-phase extraction
DTW	Depth to water
EDB	1,2-dibromoethane
EPA	Environmental Protection Agency
ESL	Environmental screening level
ETBE	Ethyl tertiary butyl ether
FID	Flame-ionization detector
fpm	Feet per minute
GAC	Granular activated carbon
gpd	Gallons per day
gpm	Gallons per minute
GWPTS	Groundwater pump and treat system
HVOC	Halogenated volatile organic compound
J	Estimated value between MDL and PQL (RL)
LEL	Lower explosive limit
LPC	Liquid-phase carbon
LRP	Liquid-ring pump
LUFT	Leaking underground fuel tank
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MDL	Method detection limit
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m^3	Milligrams per cubic meter
MPE	Multi-phase extraction
MRL	Method reporting limit
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
NAI	Natural attenuation indicators
NAPL	Non-aqueous phase liquid
NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
ORP	Oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
P&ID	Process & Instrumentation Diagram
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene or perchloroethylene
PID	Photo-ionization detector
PLC	Programmable logic control
POTW	Publicly owned treatment works
ppmv	Parts per million by volume
PQL	Practical quantitation limit
psi	Pounds per square inch
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RBSL	Risk-based screening levels
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
scfm	Standard cubic feet per minute
SSTL	Site-specific target level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC	Semivolatile organic compound
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
TCE	Trichloroethene
TOC	Top of well casing elevation; datum is msl
TOG	Total oil and grease
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
TPHmo	Total petroleum hydrocarbons as motor oil
TPHs	Total petroleum hydrocarbons as stoddard solvent
TRPH	Total recoverable petroleum hydrocarbons
UCL	Upper confidence level
USCS	Unified Soil Classification System
USGS	United States Geologic Survey
UST	Underground storage tank
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VPC	Vapor-phase carbon



FN 2735 TOPO

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map provided by DeLorme 3-D TopoQuads

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SITE VICINITY MAP

FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

PROJECT NO. 2735

PLATE 1

APPROXIMATE SCALE

0 80 160 METERS

FN 2735 12 R03 SRS AERIAL_SP

100-Meter and 300-Meter Radius

LEGEND

- C/I — Commericial / Industrial
- VAC — Vacant Lot
- P — Parking Lot
- R — Additional Residential

WELLS

1. Private wells are not located within a 300-meter radius. See the Regional Area Map.

WELLS (SPECIAL USE OR MUNICIPAL)

1. Public wells are not located within a 300-meter radius.

RESIDENCES

1. 1041/1043 Buchanan Street (Duplex)
2. 973/975 Adams Street (Duplex)
3. 971 Adams Street
4. 970 Adams Street (Apartments)
5. 960/962 Adams Street (Duplex)

PUBLIC USE AREAS

1. City of Albany Police/Fire/City Offices
2. Physical Therapy

SURFACE WATER

1. Surface water is not located within a 300-meter radius.

LOCAL AREA MAP

FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

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PROJECT NO.	PLATE
2735	2

L:\EXXONMOBIL\ExxonMobil Projects\022735C (79374) Albany\2735 AutoCad\SPECIALTY MAPS\12 R03\12 R03 SRS AERIAL SP.dwg, 4/12/2012 11:50:11 AM, mkjones

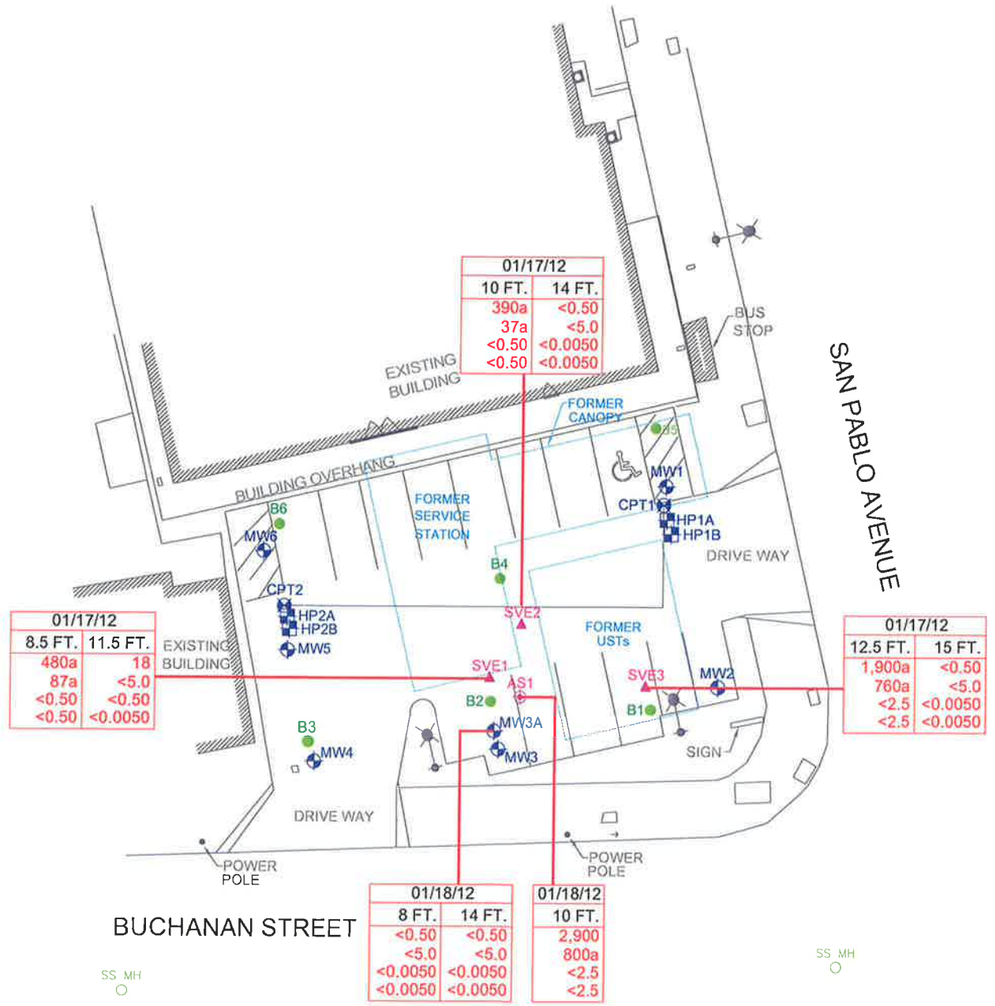
Analyte Concentrations in mg/kg

Sample Date
Sample Depth
Total Petroleum Hydrocarbons as gasoline
Total Petroleum Hydrocarbons as diesel
Benzene
Methyl Tertiary Butyl Ether

< Less Than the Stated Laboratory Reporting Limit

ug/L Micrograms per Liter

a The sample chromatographic pattern does not match that of the specified standard.



APPROXIMATE SCALE

0 30 60 Feet

FN 2735 12 R03 SOIL SAR_SP

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SELECT ANALYTICAL RESULTS

FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

EXPLANATION

- MW6 Groundwater Monitoring Well
- HP2B Hydropunch Boring
- AS1 Air Sparge Well
- B6 Soil Boring
- CPT2 Cone Penetration Test Boring
- SVE3 Soil Vapor Extraction Well

PROJECT NO. 2735

PLATE 3

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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Monitoring Well Samples															
MW1	11/04/10	---	Well installed.												
MW1	12/01/10	---	41.45	Well surveyed.											
MW1	12/16/10	---	41.45	9.18	32.27	No	---	<250	71a	54	<0.50	1.4	0.65	0.58	1.6
MW1	01/31/11	---	41.45	8.78	32.67	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	04/07/11	---	41.45	8.45	33.00	No	---	<250	65a	160a	<0.50	2.9	0.92	<0.50	1.7
MW1	07/18/11	---	41.45	9.49	31.96	No	---	<250	<50	63a	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	**10/13/11**	**---**	**41.45**	**9.86**	**31.59**	**No**	**---**	**<250**	**54**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW2	11/04/10	---	Well installed.												
MW2	12/01/10	---	41.25	Well surveyed.											
MW2	12/16/10	---	41.25	8.11	33.14	No	---	<250	110a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/31/11	---	41.25	9.29	31.96	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	04/07/11	---	41.25	8.21	33.04	No	---	<250	<50	<50	0.51	<0.50	<0.50	<0.50	<0.50
MW2	07/18/11	---	41.25	9.52	31.73	No	---	<250	<50	54a	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	**10/13/11**	**---**	**41.25**	**9.56**	**31.69**	**No**	**---**	**<250**	**98**	**75a**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW3	11/08/10	---	Well installed.												
MW3	12/01/10	---	40.42	Well surveyed.											
MW3	12/16/10	---	40.42	8.18	32.24	No	---	<250	2,900a	19,000	<12	350	130	940	290
MW3	01/31/11	---	40.42	7.64	32.78	No	---	390	2,800a	17,000a	<12	540	140	700	270
MW3	04/07/11	---	40.42	5.88	34.54	No	---	<250	2,700a	14,000	<10	600	150	780	230
MW3	07/18/11	---	40.42	8.31	32.11	No	---	<250	1,700a	19,000	<10	650	140	660	220
MW3	**10/13/11**	**---**	**40.42**	**8.76**	**31.66**	**No**	**---**	**<250**	**1,900a**	**16,000**	**<10**	**520**	**150**	**900**	**270**
MW4	11/05/10	---	Well installed.												
MW4	12/01/10	---	39.30	Well surveyed.											
MW4	12/16/10	---	39.30	6.10	33.20	No	---	<250	2,000a	9,900	<5.0	440	40	170	380
MW4	01/31/11	---	39.30	6.84	32.46	No	---	260	3,900a	13,000	<10	500	59	320	740
MW4	04/07/11	---	39.30	5.29	34.01	No	---	<250	1,900a	9,600	<10	530	59	250	340
MW4	07/18/11	---	39.30	7.36	31.94	No	---	<250	2,800a	14,000	<10	570	66	320	510
MW4	**10/13/11**	**---**	**39.30**	**7.83**	**31.47**	**No**	**---**	**320**	**7,200a**	**14,000**	**<10**	**350**	**43**	**340**	**690**
MW5	11/11/10	---	Well installed.												
MW5	12/01/10	---	40.38	Well surveyed.											
MW5	12/16/10	---	40.38	7.69	32.69	No	---	<250	1,100a	6,200	<2.5	150	96	270	980
MW5	01/31/11	---	40.38	8.00	32.38	No	---	270	4,600a	15,000	<10	520	310	1,100	2,500
MW5	04/07/11	---	40.38	6.73	33.65	No	—	<250	610a	2,500	<2.5	61	32	180	390
MW5	07/18/11	---	40.38	7.63	32.75	No	---	<250	2,000a	11,000	<2.5	340	160	990	1,800
MW5	**10/13/11**	**---**	**40.38**	**9.31**	**31.07**	**No**	**---**	**660**	**7,600a**	**23,000**	**<20**	**390**	**160**	**1,200**	**3,100**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW6	11/03/10	---	Well installed.												
MW6	12/01/10	---	41.06	Well surveyed.											
MW6	12/16/10	---	41.06	8.55	32.51	No	---	<250	110a	1,700	<0.50	2.8	1.2	61	46
MW6	01/31/11	---	41.06	8.52	32.54	No	---	<250	800a	2,000a	<1.0	6.0	<1.0	30	24
MW6	04/07/11	---	41.06	7.78	33.28	No	---	<250	660a	2,000	<0.50	10	1.0	20	19
MW6	07/18/11	---	41.06	9.27	31.79	No	---	<250	350a	1,000a	<0.50	2.5	<0.50	3.8	3.5
MW6	**10/13/11**	**---**	**41.06**	**10.21**	**30.85**	**No**	**---**	**<250**	**370a**	**890a**	**<0.50**	**2.8**	**<0.50**	**7.9**	**5.5**
Grab Groundwater Samples															
B-1W	01/06/08	---	---	---	---	---	26r,s	<5,000	99,000o,n,r	76,000m,p,r	<50	<50	93	3,100	9,600
B-2W	01/06/08	---	---	---	---	---	---	310s	23,000o,r,s	77,000 l,r,s	<50	1,500	300	2,000	6,800
B-3W	01/06/08	---	---	---	---	---	---	<250s	2,000o,s	6,200 l,s	<10	170	32	740	250
B-4W	01/06/08	---	---	---	---	---	---	<250s	3,100o,s	7,700 l,s	<10	360	<10	240	20
B-5W	01/06/08	---	---	---	---	---	---	<250s	120o,s	120q,s	<0.5	<0.5	<0.5	<0.5	<0.5
B-6W	01/06/08	---	---	---	---	---	---	<250s	830o,s	1,700 l,s	<2.5	5.2	<2.5	100	8.6
DR-W	01/06/08	---	---	---	---	---	---	<250	96o	730m,p	<0.5	<0.5	<0.5	6.9	14
W-27.5-HP1A	10/28/10	27.5	---	---	---	---	---	260	330a	63a	<0.50	<0.50	<0.50	<0.50	<0.50
W-36-HP1A	10/28/10	36	---	---	---	---	---	<250	220a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-46.5-HP1A	10/28/10	46.5	---	---	---	---	---	<420	<83	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-59-HP1B	10/27/10	59	---	---	---	---	---	<250	130	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-27.5-HP2A	10/29/10	27.5	---	---	---	---	---	<250	100a	340	<0.50	1.7	2.1	20	46
W-52-HP2A	10/29/10	52	---	---	---	---	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-60.5-HP2B	10/27/10	60.5	---	---	---	---	---	<250	62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-10-SVE1-1	01/31/12	10	---	---	---	---	---	990a	1,900a	2,000	<2.0	87	2.1	13	23
W-10-SVE1-2	01/31/12	10	---	---	---	---	---	890a	1,500a	1,400	<1.0	46	2.0	24	23

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Notes:

TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	=	Non-aqueous phase liquid.
O&G	=	Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Add'l VOCs	=	Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
µg/L	=	Micrograms per liter.
ND	=	Not detected at or above laboratory reporting limits.
---	=	Not measured/Not sampled/Not analyzed.
<	=	Less than the stated laboratory reporting limit.
a	=	Sample chromatographic pattern does not match that of the specified standard.
b	=	n-butylbenzene.
c	=	sec-butylbenzene.
d	=	Isopropylbenzene.
e	=	n-propylbenzene.
f	=	1,2,4-trimethylbenzene.
g	=	1,3,5-trimethylbenzene.
h	=	Naphthalene.
i	=	1-butanone.
j	=	1,2-dibromo-3-chloropropane.
k	=	2-methylnapthalene.
l	=	Unmodified or weakly modified gasoline is significant.
m	=	Heavier gasoline range compounds are significant.
n	=	Diesel range compounds are significant; no recognizable pattern.
o	=	Gasoline range compounds are significant.
p	=	No recognizable pattern.
q	=	Strongly aged gasoline or diesel compounds are significant.
r	=	Lighter than water immiscible sheen/product is present.
s	=	Liquid sample that contains greater than approximately 1 volume % sediment.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Add'l VOCs (µg/L)	Add'l SVOCs (µg/L)
Monitoring Well Samples										
MW1	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW1	01/31/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW1	04/07/11	---	<0.50	<0.50	<0.50	10	<0.50	<0.50	---	---
MW1	07/18/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW1	**10/13/11**	**---**	**<0.50**	**<0.50**	**<0.50**	**<5.0**	**<0.50**	**<0.50**	**---**	**---**
MW2	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	01/31/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	04/07/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	07/18/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	**10/13/11**	**---**	**<0.50**	**<0.50**	**<0.50**	**<5.0**	**<0.50**	**<0.50**	**---**	**---**
MW3	12/16/10	---	<12	<12	<12	<120	<12	<12	---	---
MW3	01/31/11	---	<12	<12	<12	<120	<12	<12	---	---
MW3	04/07/11	---	<10	<10	<10	<100	<10	<10	---	---
MW3	07/18/11	---	<10	<10	<10	<100	<10	<10	---	---
MW3	**10/13/11**	**---**	**<10**	**<10**	**<10**	**<100**	**<10**	**<10**	**---**	**---**
MW4	12/16/10	---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW4	01/31/11	---	<10	<10	<10	<100	<10	<10	---	---
MW4	04/07/11	---	<10	<10	<10	<100	<10	<10	---	---
MW4	07/18/11	---	<10	<10	<10	<100	<10	<10	---	---
MW4	**10/13/11**	**---**	**<10**	**<10**	**<10**	**<100**	**<10**	**<10**	**---**	**---**
MW5	12/16/10	---	<2.5	<2.5	<2.5	<25	<2.5	<2.5	---	---
MW5	01/31/11	---	<10	<10	<10	<100	<10	<10	---	---
MW5	04/07/11	---	<2.5	<2.5	<2.5	<25	<2.5	<2.5	---	---
MW5	07/18/11	---	<2.5	<2.5	<2.5	<25	<2.5	<2.5	---	---
MW5	**10/13/11**	**---**	**<20**	**<20**	**<20**	**<200**	**<20**	**<20**	**---**	**---**
MW6	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	01/31/11	---	<1.0	<1.0	<1.0	<10	<1.0	<1.0	---	---
MW6	04/07/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	07/18/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	**10/13/11**	**---**	**<0.50**	**<0.50**	**<0.50**	**<5.0**	**<0.50**	**<0.50**	**---**	**---**
Grab Groundwater Samples										
B-1W	01/06/08	---	<50	<50	<50	<200	<50	<50	210b, 68c, 370d, 1,100e, 3,800f, 1,300g, 1,500h	4,000h, 3,900k
B-2W	01/06/08	---	<50	<50	<50	<200	<50	<50	110b, 140e, 440f, 2,400g, 730h, 610i, 32j	---
B-3W	01/06/08	---	<10	<10	<10	<40	<10	<10	25b, 11c, 74d, 190e, 290f, 49g, 55i	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Add'l VOCs (µg/L)	Add'l SVOCs (µg/L)
B-4W	01/06/08	---	<10	<10	<10	<40	<10	<10	46b, 19c, 48d, 160e, 16f, 100h	---
B-5W	01/06/08	---	ND	<0.5	<0.5	<2.0	<0.5	<0.5	2.6b, 0.83e, 4.8f, 1.2g, 6.5h	---
B-6W	01/06/08	---	<2.5	<2.5	<2.5	<10	<2.5	<2.5	14b, 5.6c, 17d, 60e, 32f, 5.8g, 38h, 10i	---
DR-W	01/06/08	---	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	6.9b, 2.4c, 2.5d, 11e, 17f, 5.5g, 7.0h	---
W-27.5-HP1A	10/28/10	27.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-36-HP1A	10/28/10	36	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-46.5-HP1A	10/28/10	46.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-59-HP1B	10/27/10	59	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-27.5-HP2A	10/29/10	27.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-52-HP2A	10/29/10	52	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-60.5-HP2B	10/27/10	60.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-10-SVE1-1	01/31/12	10	<2.0	<2.0	<2.0	62	<2.0	<2.0	---	---
W-10-SVE1-2	01/31/12	10	<1.0	<1.0	<1.0	57	<1.0	<1.0	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Notes:

TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	=	Non-aqueous phase liquid.
O&G	=	Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
Add'l VOCs	=	Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
µg/L	=	Micrograms per liter.
ND	=	Not detected at or above laboratory reporting limits.
---	=	Not measured/Not sampled/Not analyzed.
<	=	Less than the stated laboratory reporting limit.
a	=	Sample chromatographic pattern does not match that of the specified standard.
b	=	n-butylbenzene.
c	=	sec-butylbenzene.
d	=	Isopropylbenzene.
e	=	n-propylbenzene.
f	=	1,2,4-trimethylbenzene.
g	=	1,3,5-trimethylbenzene.
h	=	Naphthalene.
i	=	1-butanone.
j	=	1,2-dibromo-3-chloropropane.
k	=	2-methylnapthalene.
l	=	Unmodified or weakly modified gasoline is significant.
m	=	Heavier gasoline range compounds are significant.
n	=	Diesel range compounds are significant; no recognizable pattern.
o	=	Gasoline range compounds are significant.
p	=	No recognizable pattern.
q	=	Strongly aged gasoline or diesel compounds are significant.
r	=	Lighter than water immiscible sheen/product is present.
s	=	Liquid sample that contains greater than approximately 1 volume % sediment.

TABLE 2A
CUMULATIVE SOIL ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California

Sample ID	Sampling Date	Depth (feet bgs)	TPHmo (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Total Lead (mg/kg)
Soil Boring Samples																	
B-1	01/06/08	6.0	<5.0	3.7c	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
B-1	01/06/08	10.5	<100	1,400b,c	7,200b,f	<5.0	2	51	110	400	---	---	---	---	---	---	---
B-2	01/06/08	5.5	<5.0	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
B-2	01/06/08	10.5	<100	1,400d	4,500b,f	<5.0	13	35	100	380	---	---	---	---	---	---	---
B-3	01/06/08	5.5	<5.0	<1.0	<1.0	<0.50	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
B-3	01/06/08	10.5	<5.0	53d	130e,f	<0.50	0.37	0.29	2.6	0.44	---	---	---	---	---	---	---
B-4	01/06/08	5.5	<5.0	62d	140e,f	<0.50	<0.005	1.0	0.066	0.094	---	---	---	---	---	---	---
B-4	01/06/08	10.5	<5.0	15d	140e,f	<0.50	0.25	1.5	1.3	0.11	---	---	---	---	---	---	---
B-5	01/06/08	5.5	<5.0	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
B-5	01/06/08	11.5	<5.0	5.4c,d	32e,f	<0.25	0.038	0.24	0.051	0.035	---	---	---	---	---	---	---
B-6	01/06/08	5.5	<5.0	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
B-6	01/06/08	10.5	<5.0	6.0c,d	32e,f	<0.05	0.009	0.41	<0.005	0.039	---	---	---	---	---	---	---
Monitoring Well Samples																	
S-5-MW1	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10-MW1	11/04/10	10.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-14.5-MW1	11/04/10	14.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10-MW2	11/04/10	10.0	<25	<5.0	3.1a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-15-MW2	11/04/10	15.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-MW3	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10.5-MW3	11/08/10	10.5	<25	11a	220	<0.50	<0.50	<0.50	2.0	1.1	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-15.5-MW3	11/08/10	15.5	<25	<5.0	2.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-8-MW3A	01/18/12	8.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-14.5-MW3A	01/18/12	14.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	0.015	0.0052	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-MW4	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10-MW4	11/05/10	10.0	<25	<5.0	44a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-15-MW4	11/05/10	15.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-16.5-MW4	11/05/10	16.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-MW5	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10.5-MW5	11/05/10	10.5	29	93a	450a	<0.050	<0.050	1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-16.5-MW5	11/05/10	16.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-MW6	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10-MW6	11/02/10	10.0	<25	8.2a	8.7a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-14.5-MW6	11/02/10	14.5	<25	<5.0	1.8a	<0.0050	<0.0050	<0.0050	<0.0093	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---

TABLE 2A
CUMULATIVE SOIL ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California
(Page 2 of 3)

Sample ID	Sampling Date	Depth (feet bgs)	TPHmo (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Total Lead (mg/kg)
S-20-MW6	11/02/10	20.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-CPT1	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-5-CPT2	10/20/10	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
S-10-AS1	01/18/12	10.0	<25	800a	2,900	<2.5	<2.5	<2.5	47	<2.5	<2.5	<2.5	<25	<5.0	<5.0	<5.0	---
S-8.5-SVE1	01/17/12	8.5	<25	87a	480a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-11.5-SVE1	01/17/12	11.5	<25	<5.0	18	<0.0050	<0.50	0.010	0.084	0.11	<0.0050	<0.0050	<0.50	<0.010	<0.010	<0.010	---
S-10-SVE2	01/17/12	10.0	53a	37a	390a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-14-SVE2	01/17/12	14.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	<0.010	<0.010	<0.010	---
S-12.5-SVE3	01/17/12	12.5	57a	760a	1,900a	<2.5	<2.5	<2.5	<2.5	<2.5	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	---
S-15-SVE3	01/17/12	15.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	0.015	0.033	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---
Drum Samples																	
DR-1	01/06/08	---	<5.0	2.5c,d	4.9e,f	<0.050	<0.005	0.027	0.035	0.035	---	---	---	---	---	---	9.7
Soil Stockpile Samples																	
COMP(S-Profile-1-4)	11/08/10	---	<25	7.1a	14a	<0.0050	<0.0050	<0.0050	0.069	0.049	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	6.93
S-SP1 (1-4)	01/18/12	---	190a	39a	230	<0.0050	0.20	0.66	4.3	14	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	37.6

Notes:

S-15-MW4	=	Soil - depth - monitoring well 4.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015B.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B; analyzed isong EPA Method 8020 in 2008.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dicholorethane analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
Total Lead	=	Total lead analyzed using EPA Method 6010B.
1,2,4-trimethylbenzene	=	1,2,4-Trimethylbenzene analyzed using EPA Method 8260B.
1,3,5-trimethlynemzene	=	1,3,5-Trimethlynemzene analyzed using EPA Method 8260B.
Isopropyltoluene	=	Isopropyltoluene analyzed using EPA Method 8260B.
Naphthalene	=	Naphthalene analyzed using EPA Method 8260B.
n-Butylbenzene	=	n-Butylbenzene analyzed using EPA Method 8260B.

TABLE 2A
CUMULATIVE SOIL ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California

Notes (Cont.):		
p-Isopropyltoluene	=	p-Isopropyltoluene analyzed using EPA Method 8260B.
sec-Butylbenzene	=	sec-Butylbenzene analyzed using EPA Method 8260B.
t-Butylbenzene	=	t-Butylbenzene analyzed using EPA Method 8260B.
Add'l HVOCs	=	Additional Halogenated Volatile Organic Compounds analyzed using EPA Method 8260B.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
—	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
a	=	The sample chromatographic pattern does not match that of the specified standard.
b	=	Heavier gasoline range compounds are significant.
c	=	Diesel range compounds are significant; no recognizable pattern.
d	=	Gasoline range compounds are significant.
e	=	Strongly aged gasoline or diesel range compounds are significant.
f	=	No recognizable pattern.

TABLE 2B
ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California

Sample ID	Sampling Date	Depth (feet bgs)	1,2,4-trimethyl-benzene (mg/kg)	1,3,5-trimethyl-benzene (mg/kg)	Isopropyl-benzene (mg/kg)	Naph-thalene (mg/kg)	n-Butyl-benzene (mg/kg)	p-Isopropyl-toluene (mg/kg)	sec-Butyl-benzene (mg/kg)	t-Butyl-benzene (mg/kg)	Add'l HVOCs (mg/kg)
Soil Boring Samples											
Not analyzed for these analytes.											
Monitoring Well Samples											
Not analyzed for these analytes.											
Drum Samples											
Not analyzed for these analytes.											
Soil Stockpile Samples											
COMP(S-Profile-1-4)	11/08/10	---	0.0053	0.062	0.061	0.098	0.14	0.012	0.053	0.018	ND
S-SP1 (1-4)	01/18/12	---	8.3	2.2	0.12	<5.0	0.20	0.018	0.051	<0.0050	2.5g

Notes:

S-15-MW4	=	Soil - depth - monitoring well 4.
TPHmo	=	Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015B.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B; analyzed isong EPA Method 8020 in 2008.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dicholorethane analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
Total Lead	=	Total lead analyzed using EPA Method 6010B.
1,2,4-trimethylbenzene	=	1,2,4-Trimethylbenzene analyzed using EPA Method 8260B.
1,3,5-trimethlynemzene	=	1,3,5-Trimethlynemzene analyzed using EPA Method 8260B.
Isopropyltoluene	=	Isopropyltoluene analyzed using EPA Method 8260B.

TABLE 2B
ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California

Notes (Cont.):		
Naphthalene	=	Naphthalene analyzed using EPA Method 8260B.
n-Butylbenzene	=	n-Butylbenzene analyzed using EPA Method 8260B.
p-Isopropyltoluene	=	p-Isopropyltoluene analyzed using EPA Method 8260B.
sec-Butylbenzene	=	sec-Butylbenzene analyzed using EPA Method 8260B.
t-Butylbenzene	=	t-Butylbenzene analyzed using EPA Method 8260B.
Add'l HVOCs	=	Additional halogenated volatile organic compounds analyzed using EPA Method 8260B.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
---	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
a	=	The sample chromatographic pattern does not match that of the specified standard.
b	=	Heavier gasoline range compounds are significant.
c	=	Diesel range compounds are significant; no recognizable pattern.
d	=	Gasoline range compounds are significant.
e	=	Strongly aged gasoline or diesel range compounds are significant.
f	=	No recognizable pattern.
g	=	n-Propylbenzene

TABLE 3
WELL CONSTRUCTION DETAILS
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Well Installation Date	TOC Elevation (feet)	Borehole Diameter (inches)	Total Depth of Boring (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Well Casing Material	Screened Interval (feet bgs)	Slot Size (inches)	Filter Pack Interval (feet bgs)	Filter Pack Material
MW1	11/04/10	41.45	8	17	17	2	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW2	11/04/10	41.25	8	17	17	4	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW3	11/08/10	40.42	8	17	17	4	Schedule 40 PVC	11-16	0.020	9-16	#3 Sand
MW3A	01/18/12	40.68	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
MW4	11/05/10	39.30	8	17	13	2	Schedule 40 PVC	8-13	0.020	6-13	#3 Sand
MW5	11/05/10	40.38	8	17	14	2	Schedule 40 PVC	9-14	0.020	7-14	#3 Sand
MW6	11/03/10	41.06	10	20	20	2	Schedule 40 PVC	15-20	0.020	13-20	#3 Sand
AS1	01/18/12	---	8	15.5	15.5	1	Schedule 80 PVC	10.25-13.5	#60 mesh	10.5-15.5	#2/12 Sand
SVE1	01/17/12	40.58	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
SVE2	01/17/12	40.94	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15	#2/12 Sand
SVE3	01/17/12	40.93	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand

Notes:
TOC = Top of well casing elevation; datum is mean sea level.
PVC = Polyvinyl chloride.
feet bgs = Feet below ground surface.

APPENDIX A

CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 14, 2011

Ms. Jennifer Sedlachek
ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
(*Sent via E-mail to:*
jennifer.c.sedlachek@exxonmobil.com)

Mrs. Muriel Blank
Blank Family Trust
1164 Solano Ave., #406
Albany, CA 94706

Subject: Fuel Leak Case No. RO0002974 and GeoTracker Global ID T0619716673, Exxon, 990 San Pablo Ave., Albany, CA 94706

Dear Ms. Sedlachek and Mrs. Blank:

Thank you for the recently submitted document entitled, *Work Plan for Air-Sparge and Soil Vapor Extraction Well Installation and Feasibility Testing* dated July 5, 2011 which was prepared by Cardno ERI for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned reports for the above-referenced site. The work plan recommends installing pilot test wells and performing an air-sparge and soil vapor extraction (AS/SVE) pilot test.

ACEH generally concurs with the proposed scope of work and requests that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. **Proposed Monitoring Well MW-3A** – Instead of overdrilling MW-3 and installing a new well in the same borehole to a depth of 16 feet below ground surface (ft bgs), please install another monitoring well adjacent to this well and leave MW-3 as another monitoring point. The new well (MW-3A) should be screened across both the top of water surface and reach the 10 to 10.5 ft bgs interval with the maximum hydrocarbon detection. This will minimize the well screen length and provide discrete sampling for this interval.

   Please ensure that new well MW-3A is developed and sampled before the AS/SVE test begins.

2. **Future Maps** – Please include the location of the UST pit on the map. We request that you use an aerial photo as the basemap for future site maps submitted for the site. Please label and identify the use of all properties on your map.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Barbara Jakub), according to the following schedule:

- **April 16, 2012** – Pilot Test Results Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

Digitally signed by Barbara J. Jakub
DN: cn=Barbara J. Jakub, o, ou, email=barbara.jakub@acgov.org, c=US
Date: 2011.12.14 16:24:02 -08'00'

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Enclosure: Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: **Paula Sime, Environmental Resolutions, Inc.,** 601 North McDowell Blvd.Petaluma, CA 94954 (*Sent via E-mail to:* psime@ERI-US.com)
Mrs. Marcia B. Kelly, 641 SW Morningside Rd., Topeka, KS 66615 (*Sent via E-mail to:* marciabkelly@earthlink.net)
Rev. Deborah Blank, 1563 Solano Ave. #344, Berkeley, CA 94707 (*Sent via E-mail to:* miracoli@earthlink.net)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Barbara Jakub, ACEH (*Sent via E-mail to: barbara.jakub@acgov.org*)
GeoTracker, file

APPENDIX B

FIELD PROTOCOL

Cardno ERI
Soil Boring and Well Installation
Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno ERI obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno ERI marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Drilling and Soil Sampling Procedures

Cardno ERI contracts a licensed driller to advance the boring and collect soil samples. The specific drilling method (e.g., hollow-stem auger, direct push method, or sonic drilling), sampling method [e.g., core barrel or California-modified split spoon sampler (CMSSS)] and sampling depths are documented on the boring log and may be specified in a work plan. Soil samples are typically collected at the capillary fringe and at 5-foot intervals to the total depth of the boring. To determine the depth of the capillary fringe prior to drilling, the static groundwater level is measured with a water level indicator in the closest monitoring well to the boring location, if available.

The borehole is advanced to just above the desired sampling depth. For CMSSSs, the sampler is placed inside the auger and driven to a depth of 18 inches past the bit of the auger. The sampler is driven into the soil with a standard 140-pound hammer repeatedly dropped from a height of 30 inches onto the sampler. The number of blows required to drive the sampler each 6-inch increment is recorded on the boring log. For core samplers (e.g., direct push), the core is driven 18 inches using the rig apparatus.

Soil samples are preserved in the metal or plastic sleeve used with the CMSSS or core sampler, in glass jars or other manner required by the local regulatory agency (e.g., Environmental Protection Agency Method 5035). Sleeves are removed from the sample barrel, and the lowermost sample sleeve is immediately sealed with Teflon™ tape, capped, labeled, placed in a cooler chilled to 4° Celsius and transported to a state-certified laboratory. The samples are transferred under chain-of-custody (COC) protocol.

Field Screening Procedures

Cardno ERI places the soil from the middle of the sampling interval into a plastic re-sealable bag. The bag is placed away from direct sunlight for a period of time which allows volatilization of chemical constituents, after which the tip of a photo-ionization detector (PID) or similar device is inserted through the plastic bag to measure organic vapor concentrations in the headspace. The PID measurement is recorded on the boring log. At a minimum, the PID or other device is calibrated on a daily basis in accordance with manufacturer's specifications using a hexane or isobutylene standard. The calibration gas and concentration are recorded on a calibration log. Instruments such as the PID are useful for evaluating relative concentrations of volatilized hydrocarbons, but they do not measure the concentration of petroleum hydrocarbons in the soil matrix with the same precision as laboratory analysis. Cardno ERI trained personnel describe the soil in the bag according to the Unified Soil Classification System and record the description on the boring log, which is included in the final report.

Air Monitoring Procedures

Cardno ERI performs a field evaluation for volatile hydrocarbon concentrations in the breathing zone using a calibrated photo-ionization detector or lower explosive level meter.

Groundwater Sampling

A groundwater sample, if desired, is collected from the boring by using Hydropunch™ sampling technology or installing a well in the borehole. In the case of using Hydropunch™ technology, after collecting the capillary fringe soil sample, the boring is advanced to the top of the soil/groundwater interface and a sampling probe is pushed to approximately 2 feet below the top of the static water level. The probe is opened by partially withdrawing it and thereby exposing the screen. A new or decontaminated bailer is used to collect a water sample from the probe. The water sample is then emptied into laboratory-supplied containers constructed of the correct material and with the correct volume and preservative to comply with the proposed laboratory test. The container is slowly filled with the retrieved water sample until no headspace remains and then promptly sealed with a Teflon-lined cap, checked for the presence of bubbles, labeled, entered onto a COC record and placed in chilled storage at 4° Celsius. Laboratory-supplied trip blanks accompany the water samples as a quality assurance/quality control procedure. Equipment blanks may be collected as required. The samples are kept in chilled storage and transported under COC protocol to a client-approved, state-certified laboratory for analysis.

Backfilling of Soil Boring

If a well is not installed, the boring is backfilled from total depth to approximately 5 feet below ground surface (bgs) with either neat cement or bentonite grout using a tremie pipe and either the boring is backfilled from 5 feet bgs to approximately 1 foot bgs with hydrated bentonite chips or backfill is continued to just below grade with neat cement grout. The borehole is completed to surface grade with material that best matches existing surface conditions and meets local agency requirements. Site-specific backfilling details are shown on the respective boring log.

Well Construction

A well (if constructed) is completed using materials documented on the boring log or specified in a work plan. The well is constructed with slotted casing across the desired groundwater sampling depth(s) and completed with blank casing to within 6 inches of surface grade. No further construction is conducted on temporary wells. For permanent wells, the annular space of the well is backfilled with Monterey sand from the total depth to approximately 2 feet above the top of the screened casing. A hydrated granular bentonite seal is placed on top of the sand filter pack. Grout may be placed on top of the bentonite seal to the desired depth using a tremie pipe. The well may be completed to surface grade with a 1-foot thick concrete pad. A traffic-rated well vault and locking cap for the well casing may be installed to protect against surface-water infiltration and unauthorized entry. Site-specific well construction details including type of well, well depth, casing diameter, slot size, length of screen interval and sand size are documented on the boring log or specified in the work plan.

Well Development and Sampling

If a permanent groundwater monitoring well is installed, the grout is allowed to cure a minimum of 48 hours before development. Cardno ERI personnel or a contracted driller use a submersible pump or surge block to develop the newly installed well. Prior to development, the pump is decontaminated by allowing it to run and re-circulate while immersed in a non-phosphate solution followed by successive immersions in potable water and de-ionized water baths. The well is developed until sufficient well casing volumes are removed so that turbidity is within allowable limits and pH, conductivity and temperature levels stabilize in the purge water. The volume of groundwater extracted is recorded on a log.

Following development, groundwater within the well is allowed to recharge until at least 80% of the drawdown is recovered. A new or decontaminated bailer is slowly lowered past the air/water interface in the well, and a water sample is collected and checked for the presence of non-aqueous phase liquid, sheen or emulsions. The water sample is then emptied into laboratory-supplied containers as discussed above.

Surveying

If required, wells are surveyed by a licensed land surveyor relative to an established benchmark of known elevation above mean sea level to an accuracy of +/- 0.01 foot. The casing is notched or marked on one side to identify a consistent surveying and measuring point.

Decontamination Procedures

Cardno ERI or the contracted driller decontaminates soil and water sampling equipment between each sampling event with a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned prior to drilling the borehole and at completion of the borehole.

Waste Treatment and Soil Disposal

Soil cuttings generated from the drilling or sampling are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination fluids and purge water from well development and sampling activities, if conducted, are stored on site in labeled, regulatory-approved storage containers. Fluids are subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

APPENDIX C

PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/08/2011 By jamesy

Permit Numbers: W2011-0753 to W2011-0755
Permits Valid from 12/19/2011 to 01/31/2012

Application Id:	1323301857829	**City of Project Site:**	Albany
Site Location:	990 San Pablo Ave, Albany, CA		
Project Start Date:	12/19/2011	**Completion Date:**	12/19/2011
Extension Start Date:	12/19/2011	**Extension End Date:**	01/31/2012
Extension Count:	1	**Extended By:**	priest

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant:	Cardno ERI - Alex Snyder 601 N McDowell Bl, Petaluma, CA 94612	**Phone:** 707-766-2000
Property Owner:	The Blank Family Trust 1164 Solano Ave, Albany, CA 94706	**Phone:** 510-527-4337
Client:	ExxonMobil Environmental Services 4096 Piedmont Ave, Oakland, CA 94611	**Phone:** 510-547-8196 x

Total Due: $927.00
Receipt Number: WR2011-0367 **Total Amount Paid:** $927.00
Payer Name : Environmental Resolutions, Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Remediation Well Construction-Injection - 1 Wells
Driller: Cascade - Lic #: 938110 - Method: hstem **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0753	12/08/2011	03/18/2012	AS1	8.00 in.	1.00 in.	12.00 ft	15.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

7. Minimum surface seal thickness is two inches of cement grout placed by tremie.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Remediation Well Construction-Extraction - 3 Wells
Driller: Cascade - Lic #: 938110 - Method: hstem **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0754	12/08/2011	03/18/2012	SVE1	8.00 in.	4.00 in.	5.00 ft	15.00 ft
W2011-0754	12/08/2011	03/18/2012	SVE2	8.00 in.	4.00 in.	5.00 ft	15.00 ft
W2011-0754	12/08/2011	03/18/2012	SVE3	8.00 in.	4.00 in.	5.00 ft	15.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least

five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

7. Minimum surface seal thickness is two inches of cement grout placed by tremie.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Monitoring Well Replacement-(Redrill)-Monitoring - 1 Wells
Driller: Cascade - Lic #: 938110 - Method: hstem **Work Total: $397.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2011-0755	12/08/2011	03/18/2012	MW3A	8.00 in.	4.00 in.	5.00 ft	15.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Remove the Christy box or similar structure. Drill out & Replace with New Well.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

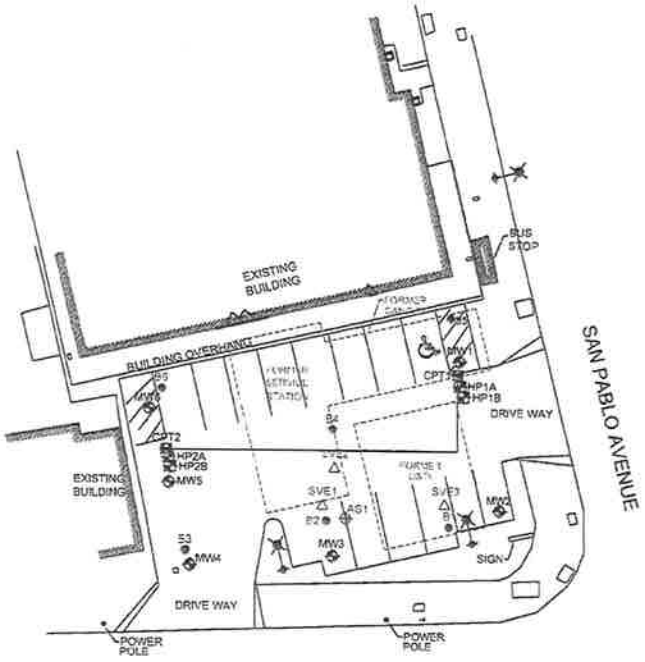
7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

11. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.



N

APPROXIMATE SCALE

0 30 60 Feet

FN 2735 11 W02 GSP_SP

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GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

EXPLANATION

- MW6 — Groundwater Monitoring Well
- B6 — Soil Boring
- HP2B — Hydropunch Boring
- CPT2 — Cone Penetration Test Boring
- SVE3 — Proposed Soil Vapor Extraction Well
- AS1 — Proposed Air Sparge Well

PROJECT NO. 2735

PLATE 2

APPENDIX D

BORING LOGS

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BORING LOG AS1

(Page 1 of 1)

Project No.:	: 022735
Site:	: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA
Logged By:	: Alexander G. Snyder
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

Date Drilled	: 01/18/12
Drilling Co.	: Cascade Drilling
Drilling Method	: Hollow-Stem Auger
Sampling Method	: 2" CA Modified Split Spoon
Borehole Diameter	: 8"
Casing Diameter	: 1"
Latitude	: 37.8879226
Longitude	: 122.2985448
Total Boring Depth	: 15.5' bgs
First GW Depth	: 9.5' bgs

Sample Condition: No Recovery; Not Sampled; Described Sample; Preserved Sample

Water Levels: Groundwater After Completion; Groundwater While Drilling

Well: AS1
Elevation: 41.07

Depth (ft)	Blow Count / 6"	OVM/PID (ppmv)	USCS	DESCRIPTION (%clay/silt/sand/gravel)
0				4" Asphalt
			GP	Poorly Graded GRAVEL with Sand: fine- to medium-grained, angular to subrounded, moderately graded, fine- to medium-grained sand (5,0,15,80)
		2.5	SP	Poorly Graded SAND: fine- to medium-grained, brown, dry, subangular to subrounded, poorly graded (0,0,100,0)
			SM	Silty SAND: fine- to medium-grained, greenish gray, dry, subangular to subrounded, poorly graded (0,40,60,0)
5		>2000		Silty SAND with Clay: fine- to medium-grained, greenish gray, dry, subangular to subrounded, poorly graded (10,25,65,0)
		50.1	SM	
		23.2		Cleared to 8 feet bgs on 1/16/12
	4			
	4			
	4	376	SM	Silty SAND: fine- to medium-grained, damp, greenish gray, subangular to subrounded, poorly graded, trace clay (5,15,80,0)
10	7			
	7			
	15		SP-SC	Poorly Graded SAND with Clay and Gravel: fine- to coarse-grained, green, wet, subangular to subrounded, moderately graded; fine- to medium-grained, subangular to subrounded gravel (10,0,60,30)
	12			
	18			
	24	801		
	5		SM	Silty SAND: fine- to medium-grained, reddish brown with green mottling, dry, subangular to subrounded, poorly graded, trace clay (5,25,70,0)
	5	30.7		
	11		SC	Clayey SAND: fine-grained, greenish gray, damp, subrounded, poorly graded (25,5,70,0)
	5			
	5			
15	5	13.8	SM	Silty SAND: fine- to medium-grained, reddish brown with green mottling, dry, subangular to subrounded, poorly graded, trace clay (5,25,70,0)
				TD: 15.5
20				

Well Box
Neat Cement Grout
1" Schedule 80 PVC Blank Casing
Bentonite Chips
#2/12 Sand
1.25" Stainless Steel #60 Mesh Screen

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

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BORING LOG MW3A

(Page 1 of 1)

Project No.:	: 022735
Site:	: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA
Logged By:	: Alexander G. Snyder
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

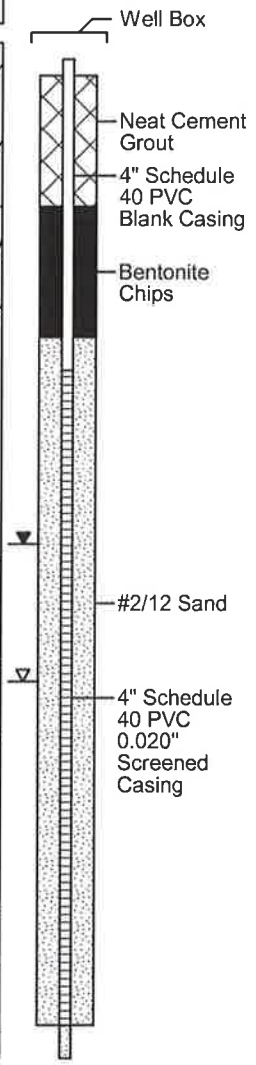
Date Drilled	: 01/18/12
Drilling Co.	: Cascade Drilling
Drilling Method	: Hollow-Stem Auger
Sampling Method	: 2" CA Modified Split Spoon
Borehole Diameter	: 10"
Casing Diameter	: 4"
Latitude	: 37.8879037
Longitude	: 122.2985623
Total Boring Depth	: 15.5' bgs
First GW Depth	: 9.5' bgs

Sample Condition: No Recovery; Not Sampled; Described Sample; Preserved Sample

Water Levels: Groundwater After Completion; Groundwater While Drilling

Well: MW3A
Elevation: 40.95

Depth (ft)	Blow Count / 6"	OVM/PID (ppmv)	USCS	DESCRIPTION (%clay/silt/sand/gravel)
0				4" Asphalt
			GP	Poorly Graded GRAVEL with Sand: fine- to medium-grained, angular to subrounded, moderately graded, fine- to medium-grained sand, trace clay (5,0,15,80)
		3.0	SC	Clayey SAND: fine- to medium-grained, brown, damp, subangular to subrounded, poorly graded (40,0,60,0)
			CL	Sandy CLAY: brown, damp, moderate plasticity, fine-grained sand, rootlets and black nodules present (65,0,35,0)
			SC	Clayey SAND with Silt: fine- to medium-grained, brown with green mottling, dry, subangular to subrounded, poorly graded (15,10,75,0)
		10.1		Silty SAND: fine- to medium-grained, light brown with green mottling, dry, subangular to subrounded, poorly graded (0,20,80,0)
5	5			Cleared to 5 feet bgs on 1/16/12
	5		SM	
	5	7.5		
	10			Clayey SAND: fine- to coarse-grained, greenish gray, damp, subangular to subrounded, moderately graded, trace gravel (25,0,75,0)
	12	328	SC	Green @ 8.5' bgs
	18			
10	14			Clayey SAND: fine- to coarse-grained, greenish gray, wet, subangular to subrounded, moderately graded; fine- to medium-grained, angular to subrounded gravel (15,0,75,10)
	15	844	SC	
	15			Clayey SAND: fine- to medium-grained, brown with green mottling, wet, subrounded, poorly graded, trace gravel (20,0,80,0)
	9			
	9	>9999	SC	
	15			
	7			
	9			
	10	252	SM	Silty SAND: fine- to medium-grained, brown with green mottling, dry, subangular to subangular, poorly graded (0,20,80,0)
	9			Clayey SAND: fine- to medium-grained, greenish gray, moist, subrounded, poorly graded, trace silt (20,5,75,0)
15	9		SC	
	16	106	SM	Silty SAND: fine- to medium-grained, brown with green mottling, dry, subangular to subangular, poorly graded (0,20,80,0).
				TD: 15.5
20				



The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

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BORING LOG SVE1

(Page 1 of 1)

Project No.:	: 022735
Site:	: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA
Logged By:	: Alexander G. Snyder
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

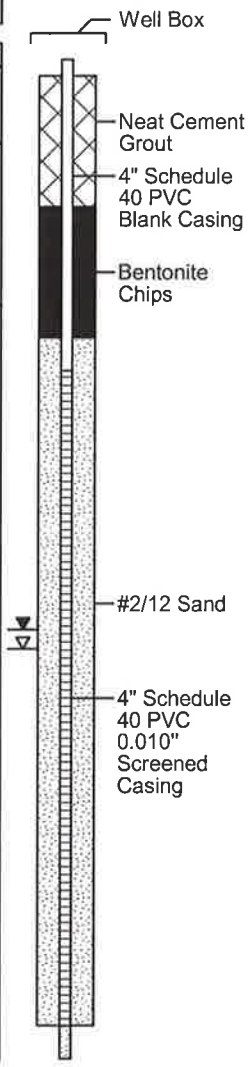
Date Drilled	: 01/17/12
Drilling Co.	: Cascade Drilling
Drilling Method	: Hollow-Stem Auger
Sampling Method	: 2" CA Modified Split Spoon
Borehole Diameter	: 10"
Casing Diameter	: 4"
Latitude	: 37.8879326
Longitude	: 122.2985668
Total Boring Depth	: 15.5' bgs
First GW Depth	: 9' bgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: Groundwater After Completion; Groundwater While Drilling

Depth (ft)	Blow Count / 6"	OVM/PID (ppmv)	USCS	DESCRIPTION (%clay/silt/sand/gravel)
0				4" Asphalt
			GP	Poorly Graded GRAVEL with Sand: fine- to medium-grained, angular to subrounded, moderately graded, damp, fine- to coarse-grained sand (5,0,15,80)
		84	SC	Clayey SAND: fine- to medium-grained, dark brown, damp, subangular to subrounded, poorly graded (45,0,55,0)
		48		Green/gray @ 25.5 feet bgs
		30.9	SM	Silty SAND: fine- to medium-grained, light brown with green mottling, dry, subangular to subrounded, poorly graded (0,35,65,0)
5				Cleared to 8' bgs on 1/16/12
		1100	SC	Clayey SAND: fine- to medium-grained, brown with green mottling, damp, subangular to subrounded, poorly graded (15,0,85,0)
	8	>4000		Green @ 8' bgs
	9			
	15		SC	Clayey SAND: fine- to medium-grained, green with white mottling, wet, subangular to subrounded, poorly graded, concretions present (35,0,65,0)
10	10			
	10		SP	SAND: fine- to medium-grained, greenish gray, wet, subangular to subrounded, poorly graded, trace silt (0,5,95,0)
	7	4800		
	7			
	9		SC	Clayey SAND: fine-grained, greenish gray with brown mottling, subrounded, poorly graded (30,0,70,0)
	6		SM	Silty SAND: fine- to medium-grained, greenish gray, wet, subangular to subrounded, poorly graded (0,20,80,0)
	6	3338		
	13		GP	Gravel with SAND: fine- to medium-grained, wet, subangular, moderately graded, fine- to medium-grained sand (10,0,20,70)
	9		SC	Clayey SAND: fine-grained, greenish gray with brown mottling, subrounded, poorly graded (30,0,70,0)
	14		GP	GRAVEL: fine- to medium-grained, wet, angular to subangular, moderately graded, trace sand and clay (5,0,5,90)
15	17	74		
20				

Well: SVE1
Elevation: 40.58



The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

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BORING LOG SVE2

(Page 1 of 1)

Project No.:	: 022735
Site:	: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA
Logged By:	: Alexander G. Snyder
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

Date Drilled	: 01/17/12
Drilling Co.	: Cascade Drilling
Drilling Method	: Hollow-Stem Auger
Sampling Method	: 2" CA Modified Split Spoon
Borehole Diameter	: 10"
Casing Diameter	: 4"
Latitude	: 37.8879620
Longitude	: 122.2985456
Total Boring Depth	: 15' bgs
First GW Depth	: 9.31' bgs

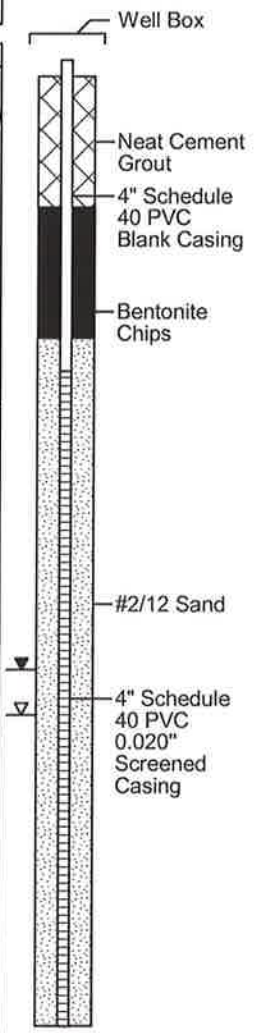
Sample Condition: No Recovery; Not Sampled; Described Sample; Preserved Sample

Water Levels: Groundwater After Completion; Groundwater While Drilling

Well: SVE2
Elevation: 40.94

Depth (ft)	Blow Count / 6"	OVM/PID (ppmv)	USCS	DESCRIPTION (%clay/silt/sand/gravel)
0				4" Asphalt
			GP	GRAVEL with Sand: fine- to medium-grained, angular to subrounded, moderately graded, damp, fine- to coarse-grained sand, trace clay (5,0,15,80)
				SAND with Clay: fine- to medium-grained, light brown, dry, subangular to subrounded, poorly graded (10,0,90,0)
		1.7	SP-SC	
5		>9000		Clayey SAND: fine- to medium-grained, greenish gray, damp, subangular to subrounded, poorly graded (25,0,75,0)
			SC	
				Moist to wet @ 10' bgs
10	2	>9999		Cleared to 10' bgs @ 0945 on 1/17/12
	2			Poorly Graded SAND: fine- to medium-grained, greenish gray, wet, angular to subrounded, poorly graded, micas present (0,0,100,0)
	4			
	5		SP	
	5	>9999		
	5			
	7		SC	Clayey SAND: fine- to medium-grained, dark greenish gray, wet, angular to subrounded, poorly graded, micas present (15,0,85,0)
	12		GP	
	14	72	SC	Poorly Graded GRAVEL with Sand: fine-grained, wet, subrounded, moderately graded, fine- to medium-grained sand, trace clay and silt (5,5,20,70)
15	12/6			Clayey SAND: fine-grained, brown with green mottling, subrounded, poorly graded (40,0,60,0)
				Concretions and black organics present, approximately 1 cm diameter.
				TD: 15 feet bgs
20				

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).



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BORING LOG SVE3

(Page 1 of 1)

Project No.:	: 022735
Site:	: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA
Logged By:	: Alexander G. Snyder
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

Date Drilled	: 01/17/12
Drilling Co.	: Cascade Drilling
Drilling Method	: Hollow-Stem Auger
Sampling Method	: 2" CA Modified Split Spoon
Borehole Diameter	: 10"
Casing Diameter	: 4"
Latitude	: 37.8879296
Longitude	: 122.2984573
Total Boring Depth	: 15' bgs
First GW Depth	: 8.95' bgs

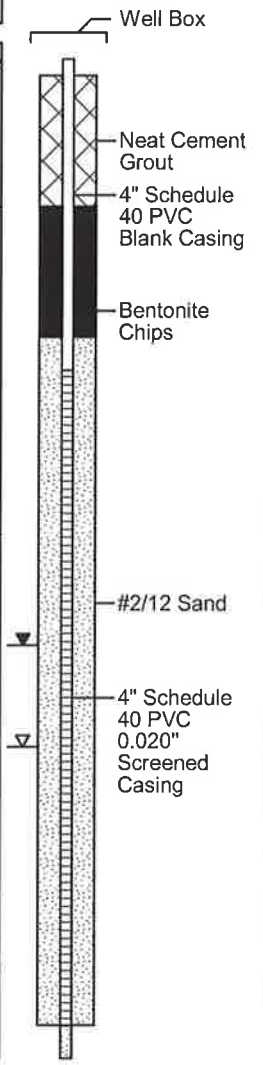
Sample Condition: No Recovery; Not Sampled; Described Sample; Preserved Sample

Water Levels: Groundwater After Completion; Groundwater While Drilling

Well: SVE3
Elevation: 40.93

Depth (ft)	Blow Count / 6"	OVM/PID (ppmv)	USCS	DESCRIPTION (%clay/silt/sand/gravel)
0				3" Asphalt
		1.5	SP	Poorly Graded SAND: fine- to medium-grained, brown, dry, subangular to subrounded, poorly graded, trace silt (0,5,95,0)
		9.3	SM	Silty SAND: fine- to medium-grained, green with brown mottling, damp, subangular-subrounded, poorly graded (0,15,85,0)
5		198		
		1117	SM	Silty SAND: fine- to medium-grained, greenish gray, moist, subangular to subrounded, poorly graded, trace clay (5,20,75,0) Cleared to 8.5 feet bgs on 1/16/12
	2 1 2			
10	2 3 6			Wet at 10.5 feet bgs
	3 3 3	>3000		
	7 14 20	265	SC	Clayey SAND with Silt: fine- to medium-grained, dark green, wet, subangular to subrounded, poorly graded, micas and concretions present (20,10,70,0)
	5 5 9	19	SC	Clayey Silty SAND: fine-grained, brown with green mottling, damp, subrounded, poorly graded (20,20,60,0) Brown with red mottling at 15.5 feet bgs
15				TD: 15.5 Feet bgs
20				

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).



APPENDIX E

WELL DEVELOPMENT RECORDS

2735C/D6L

ERI Job# 2735	Quarter 1st	Year 2012	Surging	
Client/Site: Former Exxon 79374			Start 0730	Stop 0745
Location: 990 San Pablo Ave.			Start	Stop
Name.: Alex Snyder			Start	Stop
DATE: 1/27/12			Start	Stop
Weather: Cloudy			Start	Stop

-8.25

WELL ID SVE3

TIME	PURGE VOLUME	Temp	COND	pH	Turbidity
hr:min	Gal	deg C F		unit	NTU
		1 deg	10%	0.1	Less Than 5
0753	5	17.3	1995	6.55	–
0800	12				
0820	17	17.3	1496	7.61	–
0849	22	17.3	1305	7.02	–
0857	28	17.3	1216	7.02	1008
0908	33	17.4	1150	7.01	669
0920	38	17.4	1152	7.05	383.3
933	41	17.8	1159	7.13	542.2
935	45	18.2	1175	7.04	789.5
947	48	18.2	1150	6.99	271.8
959	52	18.1	1154	6.99	1162.9

Total Purge Volume	54 Gallons
CASING VOL. FACTOR	

diameter		1-26-12 WELL INFORMATION	
		Time	0730
2"-dia:	0.163	TD:	14.98
4"-dia:	0.652	DTW :	8.95
6"-dia:	1.457	h:	6.03
		csg vol:	3.93

COMMENTS

13.8 - 738
12.7 - 800

2735C / OGL

ERI Job# 2735	Quarter 1st	Year 2012	Surging	
Client/Site: Former Exxon 79274			Start 1442	Stop 1458
Location: 990 San Pablo Ave			Start 1600	Stop 1615
Name.: Alex Snyder			Start	Stop
DATE: 1/26/12			Start	Stop
Weather: Cloudy			Start	Stop

WELL ID SVE2

TIME	PURGE VOLUME	Temp	COND	pH	Turbidity
hr:min	Gal	deg C F		unit	NTU
		1 deg	10%	0.1	Less Than 5
1504 (1-26-12)	5	18.7	1587 ms	7.30	-
1516	10				
1620	15	18.7	1652	7.37	-
1625	25				
1425 (1-27-12)	30	19.4	1479	7.33	-
1454	35	19.5	1480	7.32	-
1457	37	19.3	1433	7.18	-
1522	40	19.3	1351	7.10	1096

Sheen

14.1

30

Total Purge Volume	Gallons
CASING VOL. FACTOR	

diameter	
2"-dia:	0.163
4"-dia:	0.652
6"-dia:	1.457

WELL INFORMATION

Time	1442	1415	
TD:	14.9	14.9	
DTW :	9.31	9.31	
h:	5.59		
csg vol:	3.64		

COMMENTS

9.6

14.1 - 1510
13.1 - 1517

2735C/06L

ERI Job# 2735	Quarter 1st	Year 2012	Surging	
Client/Site: FORMER EXXON 79374			Start 918	Stop 936
Location: 990 San Pablo Ave Albany			Start 1045	Stop 1100
Name.: Alex Snyder			Start 1345	Stop 1357
DATE: 1/26/11			Start	Stop
Weather: Cloudy			Start	Stop

9.73

WELL ID SVE1

TIME	PURGE VOLUME	Temp	COND	pH	Turbidity
hr:min	Gal	deg C F		unit	NTU
		1 deg	10%	0.1	Less Than 5
940	5	19.3	2.75 mS	6.35	–
950	7.5				
1105	12	19.0	2.23 mS	7.37	–
1403	21	18.8	1539	6.87	
1423	25	19.5	1430	7.22	
1301 (1-27-12)	30	18.8	1336	7.20	
1306	35	18.9	1416	~~7.22~~ 7.19	–
1333	42	19.1	1279	6.95	1100
1348	46	19.2	1269	6.99	97.95
1353	50	19.2	1256	6.81	112.2

Bailed 1.

~16 gal

← Pumping

Total Purge Volume — Gallons

CASING VOL. FACTOR

diameter		WELL INFORMATION		
		Time	0911 (1-26-12)	1255 (1-27-12)
		TD:	15	15
2"-dia:	0.163	DTW:	8.72	8.71
4"-dia:	0.652	h:	6.28	–
6"-dia:	1.457	csg vol:	4.09	–

COMMENTS

1455 – 13
1920 –

2.5 –

Bail – 939

9.

12.4 – 949
11.4 – 1068

12.? – 1116
12.? – 1124

2735/06L

ERI Job# 2735	Quarter 1st	Year 2012	Surging	
Client/Site: FORMER EXXON 79274			Start 1135	Stop 1150
Location: 990 San Pablo Ave			Start 1105	Stop 1040
Name.: Alex Smythe			Start	Stop
DATE: 1/26/12			Start	Stop
Weather: Cloudy			Start	Stop

WELL ID MW-3A

TIME	PURGE VOLUME	Temp	COND	pH	Turbidity
hr:min	Gal	deg C F		unit	NTU
		1 deg	10%	0.1	Less Than 5
1155	5	18.1	1052.5	7.65	-
1250	11.5	17.9	1053.5	7.59	-
1202	12.5				
1045	15	18.4	1234	7.40	
1048	18	18.4	1249	7.36	
1130	20	18.5	1317	7.58	
1242	22	20.0	1511	7.58	

Total Purge Volume	Gallons
CASING VOL. FACTOR	

diameter		WELL INFORMATION			
		Time	1130 (1-26-12)	0830 (1-27-12)	
2"-dia:	0.163	TD:	15.0	15.0	
4"-dia:	0.652	DTW :	7.40	10.11	
6"-dia:	1.457	h:	7.60		
		csg vol:	4.95		

COMMENTS

8.81-11.03

13.6 - 12.02

12.7 - 12.38

12.5 13.40

APPENDIX F

LABORATORY REPORTS

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-01-1200

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Paula Sime
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile L deGuia

Approved for release on 02/2/2012 by:
Cecile deGuia
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: ExxonMobil 79374/022735C
Work Order Number: 12-01-1200

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

Calscience Work Order No.: 12-01-1200
Client Reference: ExxonMobil 79374/022735C

Four (4) soil samples were received for Calscience work order 12-01-1200 on January 20, 2012. Testing was performed in accordance with the chain-of-custody instructions.

EPA 8260B:
LCS/LCSD: All target analytes were within acceptance criteria with the exception of Methyl-t-Butyl Ether (MTBE). The LCS and/or LCS Duplicate recoveries for this analyte was above the upper control limit of 120%, but was below the NELAC-defined upper marginal exceedance (ME) limit of 127%. (ME = +/- 4 standard deviations.) Based upon the number of analytes spiked into the LCS/LCSD, and per NELAC, the laboratory is allowed to report associated data when there is, in this case, one marginal exceedance in the LCS/LCSD.

Methyl-t-Butyl Ether (MTBE) is reported as a marginal exceedance in the following QC batch:

120120L01
120124L02

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-SP1 (1-4)	**12-01-1200-5-A**	**01/18/12 11:40**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 22:09**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	190	25	1	SG,HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-254-2,319**	**N/A**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 17:35**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-SP1 (1-4)	**12-01-1200-5-A**	**01/18/12 11:40**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 22:09**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	39	5.0	1	SG,HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-275-4,348**	**N/A**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 17:35**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-SP1 (1-4)	**12-01-1200-5-A**	**01/18/12 11:40**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 20:27**	**120120B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	230	10	20		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	87	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-571-154**	**N/A**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 14:16**	**120120B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	4.0	8	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	77	42-126	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-SP1 (1-4)	**12-01-1200-5-A**	**01/18/12 11:40**	**Solid**	**GC/MS XX**	**01/20/12**	**01/20/12 18:32**	**120120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.20	0.0050	1		2-Chlorotoluene	ND	0.0050	1	U
Toluene	0.66	0.50	100		4-Chlorotoluene	ND	0.0050	1	U
Ethylbenzene	4.3	0.50	100		4-Methyl-2-Pentanone	ND	0.050	1	U
Xylenes (total)	14	0.50	100		Acetone	ND	0.12	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	Bromobenzene	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U	Bromochloromethane	ND	0.0050	1	U
Diisopropyl Ether (DIPE)	ND	0.010	1	U	Bromoform	ND	0.0050	1	U
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U	Bromomethane	ND	0.025	1	U
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U	Carbon Disulfide	ND	0.050	1	U
1,1,1,2-Tetrachloroethane	ND	0.0050	1	U	Carbon Tetrachloride	ND	0.0050	1	U
1,1,1-Trichloroethane	ND	0.0050	1	U	Chlorobenzene	ND	0.0050	1	U
1,1,2,2-Tetrachloroethane	ND	0.0050	1	U	Dibromochloromethane	ND	0.0050	1	U
1,1,2-Trichloroethane	ND	0.0050	1	U	Chloroethane	ND	0.0050	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1	U	Chloroform	ND	0.0050	1	U
1,1-Dichloroethane	ND	0.0050	1	U	Chloromethane	ND	0.025	1	U
1,1-Dichloroethene	ND	0.0050	1	U	Dibromomethane	ND	0.0050	1	U
1,1-Dichloropropene	ND	0.0050	1	U	Bromodichloromethane	ND	0.0050	1	U
1,2,3-Trichlorobenzene	ND	0.010	1	U	Dichlorodifluoromethane	ND	0.0050	1	U
1,2,3-Trichloropropane	ND	0.0050	1	U	Hexachloro-1,3-Butadiene	ND	0.10	1	U
1,2,4-Trichlorobenzene	ND	0.0050	1	U	Isopropylbenzene	0.12	0.0050	1	
1,2,4-Trimethylbenzene	8.3	0.50	100		2-Butanone	ND	0.050	1	U
1,3,5-Trimethylbenzene	2.2	0.50	100		Methylene Chloride	ND	0.050	1	U
c-1,2-Dichloroethene	ND	0.0050	1	U	2-Hexanone	ND	0.050	1	U
1,2-Dibromo-3-Chloropropane	ND	0.010	1	U	Naphthalene	ND	5.0	100	U
1,2-Dibromoethane	ND	0.0050	1	U	n-Butylbenzene	0.20	0.0050	1	
1,2-Dichlorobenzene	ND	0.0050	1	U	n-Propylbenzene	2.5	0.50	100	
1,2-Dichloroethane	ND	0.0050	1	U	p-Isopropyltoluene	0.018	0.0050	1	
1,2-Dichloropropane	ND	0.0050	1	U	sec-Butylbenzene	0.051	0.0050	1	
t-1,2-Dichloroethene	ND	0.0050	1	U	Styrene	ND	0.0050	1	U
c-1,3-Dichloropropene	ND	0.0050	1	U	tert-Butylbenzene	ND	0.0050	1	U
1,3-Dichlorobenzene	ND	0.0050	1	U	Tetrachloroethene	ND	0.0050	1	U
1,3-Dichloropropane	ND	0.0050	1	U	Trichloroethene	ND	0.0050	1	U
t-1,3-Dichloropropene	ND	0.0050	1	U	Trichlorofluoromethane	ND	0.050	1	U
1,4-Dichlorobenzene	ND	0.0050	1	U	Vinyl Chloride	ND	0.0050	1	U
2,2-Dichloropropane	ND	0.0050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	60-132		Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	94	62-146		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-882-1,258**	**N/A**	**Solid**	**GC/MS XX**	**01/20/12**	**01/20/12 12:03**	**120120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	2-Chlorotoluene	ND	0.0050	1	U
Toluene	ND	0.0050	1	U	4-Chlorotoluene	ND	0.0050	1	U
Ethylbenzene	ND	0.0050	1	U	4-Methyl-2-Pentanone	ND	0.050	1	U
Xylenes (total)	ND	0.0050	1	U	Acetone	ND	0.12	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	Bromobenzene	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U	Bromochloromethane	ND	0.0050	1	U
Diisopropyl Ether (DIPE)	ND	0.010	1	U	Bromoform	ND	0.0050	1	U
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U	Bromomethane	ND	0.025	1	U
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U	Carbon Disulfide	ND	0.050	1	U
1,1,1,2-Tetrachloroethane	ND	0.0050	1	U	Carbon Tetrachloride	ND	0.0050	1	U
1,1,1-Trichloroethane	ND	0.0050	1	U	Chlorobenzene	ND	0.0050	1	U
1,1,2,2-Tetrachloroethane	ND	0.0050	1	U	Dibromochloromethane	ND	0.0050	1	U
1,1,2-Trichloroethane	ND	0.0050	1	U	Chloroethane	ND	0.0050	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1	U	Chloroform	ND	0.0050	1	U
1,1-Dichloroethane	ND	0.0050	1	U	Chloromethane	ND	0.025	1	U
1,1-Dichloroethene	ND	0.0050	1	U	Dibromomethane	ND	0.0050	1	U
1,1-Dichloropropene	ND	0.0050	1	U	Bromodichloromethane	ND	0.0050	1	U
1,2,3-Trichlorobenzene	ND	0.010	1	U	Dichlorodifluoromethane	ND	0.0050	1	U
1,2,3-Trichloropropane	ND	0.0050	1	U	Hexachloro-1,3-Butadiene	ND	0.10	1	U
1,2,4-Trichlorobenzene	ND	0.0050	1	U	Isopropylbenzene	ND	0.0050	1	U
1,2,4-Trimethylbenzene	ND	0.0050	1	U	2-Butanone	ND	0.050	1	U
1,3,5-Trimethylbenzene	ND	0.0050	1	U	Methylene Chloride	ND	0.050	1	U
c-1,2-Dichloroethene	ND	0.0050	1	U	2-Hexanone	ND	0.050	1	U
1,2-Dibromo-3-Chloropropane	ND	0.010	1	U	Naphthalene	ND	0.050	1	U
1,2-Dibromoethane	ND	0.0050	1	U	n-Butylbenzene	ND	0.0050	1	U
1,2-Dichlorobenzene	ND	0.0050	1	U	n-Propylbenzene	ND	0.0050	1	U
1,2-Dichloroethane	ND	0.0050	1	U	p-Isopropyltoluene	ND	0.0050	1	U
1,2-Dichloropropane	ND	0.0050	1	U	sec-Butylbenzene	ND	0.0050	1	U
t-1,2-Dichloroethene	ND	0.0050	1	U	Styrene	ND	0.0050	1	U
c-1,3-Dichloropropene	ND	0.0050	1	U	tert-Butylbenzene	ND	0.0050	1	U
1,3-Dichlorobenzene	ND	0.0050	1	U	Tetrachloroethene	ND	0.0050	1	U
1,3-Dichloropropane	ND	0.0050	1	U	Trichloroethene	ND	0.0050	1	U
t-1,3-Dichloropropene	ND	0.0050	1	U	Trichlorofluoromethane	ND	0.050	1	U
1,4-Dichlorobenzene	ND	0.0050	1	U	Vinyl Chloride	ND	0.0050	1	U
2,2-Dichloropropane	ND	0.0050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	60-132		Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	94	62-146		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-882-1,263**	**N/A**	**Solid**	**GC/MS XX**	**01/24/12**	**01/24/12 13:01**	**120124L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100	U	2-Chlorotoluene	ND	0.50	100	U
Toluene	ND	0.50	100	U	4-Chlorotoluene	ND	0.50	100	U
Ethylbenzene	ND	0.50	100	U	4-Methyl-2-Pentanone	ND	5.0	100	U
Xylenes (total)	ND	0.50	100	U	Acetone	ND	12	100	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	U	Bromobenzene	ND	0.50	100	U
Tert-Butyl Alcohol (TBA)	ND	5.0	100	U	Bromochloromethane	ND	0.50	100	U
Diisopropyl Ether (DIPE)	ND	1.0	100	U	Bromoform	ND	0.50	100	U
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	100	U	Bromomethane	ND	2.5	100	U
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	100	U	Carbon Disulfide	ND	5.0	100	U
1,1,1,2-Tetrachloroethane	ND	0.50	100	U	Carbon Tetrachloride	ND	0.50	100	U
1,1,1-Trichloroethane	ND	0.50	100	U	Chlorobenzene	ND	0.50	100	U
1,1,2,2-Tetrachloroethane	ND	0.50	100	U	Dibromochloromethane	ND	0.50	100	U
1,1,2-Trichloroethane	ND	0.50	100	U	Chloroethane	ND	0.50	100	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	100	U	Chloroform	ND	0.50	100	U
1,1-Dichloroethane	ND	0.50	100	U	Chloromethane	ND	2.5	100	U
1,1-Dichloroethene	ND	0.50	100	U	Dibromomethane	ND	0.50	100	U
1,1-Dichloropropene	ND	0.50	100	U	Bromodichloromethane	ND	0.50	100	U
1,2,3-Trichlorobenzene	ND	1.0	100	U	Dichlorodifluoromethane	ND	0.50	100	U
1,2,3-Trichloropropane	ND	0.50	100	U	Hexachloro-1,3-Butadiene	ND	10	100	U
1,2,4-Trichlorobenzene	ND	0.50	100	U	Isopropylbenzene	ND	0.50	100	U
1,2,4-Trimethylbenzene	ND	0.50	100	U	2-Butanone	ND	5.0	100	U
1,3,5-Trimethylbenzene	ND	0.50	100	U	Methylene Chloride	ND	5.0	100	U
c-1,2-Dichloroethene	ND	0.50	100	U	2-Hexanone	ND	5.0	100	U
1,2-Dibromo-3-Chloropropane	ND	1.0	100	U	Naphthalene	ND	5.0	100	U
1,2-Dibromoethane	ND	0.50	100	U	n-Butylbenzene	ND	0.50	100	U
1,2-Dichlorobenzene	ND	0.50	100	U	n-Propylbenzene	ND	0.50	100	U
1,2-Dichloroethane	ND	0.50	100	U	p-Isopropyltoluene	ND	0.50	100	U
1,2-Dichloropropane	ND	0.50	100	U	sec-Butylbenzene	ND	0.50	100	U
t-1,2-Dichloroethene	ND	0.50	100	U	Styrene	ND	0.50	100	U
c-1,3-Dichloropropene	ND	0.50	100	U	tert-Butylbenzene	ND	0.50	100	U
1,3-Dichlorobenzene	ND	0.50	100	U	Tetrachloroethene	ND	0.50	100	U
1,3-Dichloropropane	ND	0.50	100	U	Trichloroethene	ND	0.50	100	U
t-1,3-Dichloropropene	ND	0.50	100	U	Trichlorofluoromethane	ND	5.0	100	U
1,4-Dichlorobenzene	ND	0.50	100	U	Vinyl Chloride	ND	0.50	100	U
2,2-Dichloropropane	ND	0.50	100	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	60-132		Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	93	62-146		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-SP1 (1-4)	**12-01-1200-5-A**	**01/18/12 11:40**	**Solid**	**ICP 5300**	**01/20/12**	**01/23/12 17:54**	**120120L04**

Parameter	Result	RL	DF	Qual	Units
Lead	37.6	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-15,596**	**N/A**	**Solid**	**ICP 5300**	**01/20/12**	**01/21/12 12:06**	**120120L04**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1	U	mg/kg

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 3050B
Method: EPA 6010B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1210-2	**Solid**	**ICP 5300**	**01/20/12**	**01/21/12**	**120120S04**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	25.00	179	91	75-125	27	0-20	HX,BA

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 3050B
Method: EPA 6010B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-01-1210-2	**Solid**	**ICP 5300**	**01/20/12**	**01/21/12**	**120120S04**

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	25.00	91	94	75-125	1	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1199-8	**Solid**	**GC 46**	**01/23/12**	**01/23/12**	**120123S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	400.0	106	108	64-130	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI	Date Received:	01/20/12
601 North McDowell Blvd.	Work Order No:	12-01-1200
Petaluma, CA 94954-2312	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1199-8	**Solid**	**GC 46**	**01/23/12**	**01/23/12**	**120123S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	106	110	64-130	4	0-15	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1078-5	**Solid**	**GC/MS XX**	**01/20/12**	**01/20/12**	**120120S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	104	97	61-127	7	0-20	
Toluene	0.05000	104	98	63-123	6	0-20	
Ethylbenzene	0.05000	97	91	57-129	7	0-22	
Methyl-t-Butyl Ether (MTBE)	0.05000	123	116	57-123	6	0-21	
Tert-Butyl Alcohol (TBA)	0.2500	98	91	30-168	7	0-34	
Diisopropyl Ether (DIPE)	0.05000	114	107	57-129	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	116	110	55-127	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	115	109	58-124	5	0-20	
Ethanol	0.5000	99	144	17-167	36	0-47	
1,1-Dichloroethene	0.05000	116	106	47-143	9	0-25	
1,2-Dibromoethane	0.05000	104	97	64-124	7	0-20	
1,2-Dichlorobenzene	0.05000	90	83	35-131	8	0-25	
1,2-Dichloroethane	0.05000	97	91	80-120	6	0-20	
Carbon Tetrachloride	0.05000	112	108	51-135	4	0-29	
Chlorobenzene	0.05000	95	88	57-123	7	0-20	
Trichloroethene	0.05000	184	172	44-158	7	0-20	HX
Vinyl Chloride	0.05000	107	95	49-139	12	0-47	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1200
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1343-2	**Solid**	**GC/MS XX**	**01/23/12**	**01/24/12**	**120124S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	101	106	61-127	5	0-20	
Toluene	0.05000	102	108	63-123	5	0-20	
Ethylbenzene	0.05000	91	97	57-129	6	0-22	
Methyl-t-Butyl Ether (MTBE)	0.05000	112	117	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	0.2500	88	93	30-168	5	0-34	
Diisopropyl Ether (DIPE)	0.05000	106	113	57-129	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	106	114	55-127	8	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	107	112	58-124	5	0-20	
Ethanol	0.5000	83	82	17-167	0	0-47	
1,1-Dichloroethene	0.05000	97	102	47-143	5	0-25	
1,2-Dibromoethane	0.05000	96	100	64-124	4	0-20	
1,2-Dichlorobenzene	0.05000	87	92	35-131	5	0-25	
1,2-Dichloroethane	0.05000	94	97	80-120	3	0-20	
Carbon Tetrachloride	0.05000	109	122	51-135	12	0-29	
Chlorobenzene	0.05000	90	96	57-123	6	0-20	
Trichloroethene	0.05000	99	106	44-158	6	0-20	
Vinyl Chloride	0.05000	95	104	49-139	9	0-47	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-15,596	**Solid**	**ICP 5300**	**01/20/12**	**01/21/12**	**120120L04**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	25.00	108	107	80-120	0	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-2,319	Solid	GC 46	01/23/12	01/23/12	120123B02

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	400.0	113	113	75-123	0	0-12	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-4,348	**Solid**	**GC 46**	**01/23/12**	**01/23/12**	**120123B01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	112	122	75-123	9	0-12	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-571-154	**Solid**	**GC 4**	**01/20/12**	**01/20/12**	**120120B02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	10.00	97	97	70-124	0	0-18	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-882-1,258	**Solid**	**GC/MS XX**	**01/20/12**	**01/20/12**	**120120L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	101	103	78-120	71-127	2	0-20	
Toluene	0.05000	103	104	77-120	70-127	1	0-20	
Ethylbenzene	0.05000	95	95	76-120	69-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	0.05000	120	124	77-120	70-127	3	0-20	LQ,RU
Tert-Butyl Alcohol (TBA)	0.2500	94	91	68-122	59-131	4	0-20	
Diisopropyl Ether (DIPE)	0.05000	110	113	78-120	71-127	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	113	116	78-120	71-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	113	117	75-120	68-128	3	0-20	
Ethanol	0.5000	82	70	56-140	42-154	16	0-20	
1,1-Dichloroethene	0.05000	98	98	74-122	66-130	0	0-20	
1,2-Dibromoethane	0.05000	103	106	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	0.05000	92	92	75-120	68-128	0	0-20	
1,2-Dichloroethane	0.05000	96	98	80-120	73-127	2	0-20	
Carbon Tetrachloride	0.05000	118	119	49-139	34-154	1	0-20	
Chlorobenzene	0.05000	93	94	79-120	72-127	0	0-20	
Trichloroethene	0.05000	101	103	80-120	73-127	2	0-20	
Vinyl Chloride	0.05000	105	104	68-122	59-131	1	0-20	

Total number of LCS compounds : 17
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1200
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-882-1,263	**Solid**	**GC/MS XX**	**01/24/12**	**01/24/12**	**120124L02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	100	100	78-120	71-127	0	0-20	
Toluene	0.05000	102	102	77-120	70-127	0	0-20	
Ethylbenzene	0.05000	90	90	76-120	69-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	0.05000	121	117	77-120	70-127	3	0-20	LQ,RU
Tert-Butyl Alcohol (TBA)	0.2500	86	88	68-122	59-131	3	0-20	
Diisopropyl Ether (DIPE)	0.05000	111	110	78-120	71-127	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	114	112	78-120	71-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	114	111	75-120	68-128	2	0-20	
Ethanol	0.5000	70	76	56-140	42-154	8	0-20	
1,1-Dichloroethene	0.05000	98	98	74-122	66-130	0	0-20	
1,2-Dibromoethane	0.05000	99	97	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	0.05000	87	87	75-120	68-128	0	0-20	
1,2-Dichloroethane	0.05000	95	92	80-120	73-127	4	0-20	
Carbon Tetrachloride	0.05000	119	121	49-139	34-154	2	0-20	
Chlorobenzene	0.05000	90	90	79-120	72-127	0	0-20	
Trichloroethene	0.05000	99	99	80-120	73-127	0	0-20	
Vinyl Chloride	0.05000	97	97	68-122	59-131	0	0-20	

Total number of LCS compounds : 17
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-01-1200

Qualifier	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.
U	Undetected at detection limit.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
P : 714-895-5494
Fax: 714-894-7501

ExxonMobil 12-01-1200

Consultant Name: Cardno ERI | **Account #:** NA | **PO#:** Direct Bill to Cardno ERI
Consultant Address: 601 North McDowell Blvd. | **Invoice To:** Direct Bill to Cardno ERI
Consultant City/State/Zip: Petaluma, California 94954 | **Report To:** Paula Sime
ExxonMobil Project Mgr: Jennifer Sedlachek | **Project Name:** 022735C
Consultant Project Mgr: Paula Sime | **ExxonMobil Site #:** 79374 | **Major Project (AFE #):**
Consultant Telephone Number: (707) 766-2000 | **Fax No.:** | **Site Address:** 990 San Pablo Avenue
Sampler Name (Print): Alex Snyder | **Site City, State, Zip:** Albany, CA
Sampler Signature: | **Oversight Agency:** Alameda County Health Care Services Agency

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl	NaOH	H_2SO_4 Plastic	H_2SO_4 Glass	HNO_3	Ice	Other	None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify): Distilled Water	TPHg and TPHd by EPA 8015B	TPHmo 8015B	BTEX by EPA 8260B	7 Oxys by EPA 8260B	Total Lead by 6010	Full Scan 8260B	HVOCs 8010 List by EPA 8260		RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report
1-4 :S-SP1(1-4)	Profile	1-18-12	1140	4		X									X							X			X	X	X	X	X	X	X			X	

Comments/Special Instructions:
Composite samples 1-4
GLOBAL ID # T0619716673

7 Oxys: MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, EDB

PLEASE E-MAIL ALL PDF FILES TO
ERI-EIMLABS@eri-us.com Norcallabs@eri-us.com

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

QC Deliverables (please circle one)
Level 2
Level 3
Level 4
Site Specific - if yes, please attach pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Relinquished by:		Date	Time	Received by:	Date	Time
		1/19/12	1200	Tom O'Malley CEL	1/19/12	1200
Relinquished by: Tom O'Malley TO GSO		1/19/12	1730	Received by (Lab personnel): Dannyle CEL	1/20/12	10:40

Return to Contents

1200

GSO

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CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
CARDNO ERI

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 518276574

NPS

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A

GARDEN GROVE

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97882168

Print Date : 01/19/12 15:39 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-01-1200

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI DATE: 01/20/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.3 °C - 0.3 °C (CF) = 1.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: hL

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: hL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: SH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve (S) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SH

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** YL

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** YL

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-01-1199

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Paula Sime
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile deGuia

Approved for release on 02/2/2012 by:
Cecile deGuia
Project Manager

ResultLink ▸

Email your PM ▸

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: ExxonMobil 79374/022735C
Work Order Number: 12-01-1199

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11.5-SVE1	**12-01-1199-1-A**	**01/17/12 14:10**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 19:52**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	127	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8.5-SVE1	**12-01-1199-2-A**	**01/17/12 14:02**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:08**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SVE3	**12-01-1199-3-A**	**01/17/12 13:19**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:23**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	125	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12.5-SVE3	**12-01-1199-4-A**	**01/17/12 13:15**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:38**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	57	25	1	SG,HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14-SVE2	**12-01-1199-5-A**	**01/17/12 12:20**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:53**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SVE2	**12-01-1199-6-A**	**01/17/12 12:15**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:09**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	53	25	1	SG,HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-AS1	**12-01-1199-7-A**	**01/18/12 09:44**	**Solid**	**GC 46**	**01/23/12**	**01/24/12 09:22**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14.5-MW3A	**12-01-1199-8-A**	**01/18/12 08:58**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:54**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI	Date Received: 01/20/12
601 North McDowell Blvd.	Work Order No: 12-01-1199
Petaluma, CA 94954-2312	Preparation: EPA 3550B
	Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-MW3A	**12-01-1199-9-A**	**01/18/12 08:45**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:39**	**120123B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	61-145	

Method Blank	099-12-254-2,319	N/A	Solid	GC 46	01/23/12	01/23/12 17:35	120123B02

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	25	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11.5-SVE1	**12-01-1199-1-A**	**01/17/12 14:10**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 19:52**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	127	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8.5-SVE1	**12-01-1199-2-A**	**01/17/12 14:02**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:08**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	87	5.0	1	HD,SG	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SVE3	**12-01-1199-3-A**	**01/17/12 13:19**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:23**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	125	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12.5-SVE3	**12-01-1199-4-A**	**01/17/12 13:15**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:38**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	760	5.0	1	HD,SG	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14-SVE2	**12-01-1199-5-A**	**01/17/12 12:20**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 20:53**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SVE2	**12-01-1199-6-A**	**01/17/12 12:15**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:09**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	37	5.0	1	HD,SG	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-AS1	**12-01-1199-7-A**	**01/18/12 09:44**	**Solid**	**GC 46**	**01/23/12**	**01/24/12 09:22**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	800	5.0	1	HD,SG	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14.5-MW3A	**12-01-1199-8-A**	**01/18/12 08:58**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:54**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-MW3A	**12-01-1199-9-A**	**01/18/12 08:45**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 21:39**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	SG,U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-275-4,348**	**N/A**	**Solid**	**GC 46**	**01/23/12**	**01/23/12 17:35**	**120123B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	5.0	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	61-145	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11.5-SVE1	**12-01-1199-1-A**	**01/17/12 14:10**	**Solid**	**GC 4**	**01/20/12**	**01/21/12 00:03**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	18	0.50	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	92	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8.5-SVE1	**12-01-1199-2-A**	**01/17/12 14:02**	**Solid**	**GC 4**	**01/24/12**	**01/24/12 17:58**	**120124B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	480	40	80	HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	104	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SVE3	**12-01-1199-3-A**	**01/17/12 13:19**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 22:30**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	72	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12.5-SVE3	**12-01-1199-4-A**	**01/17/12 13:15**	**Solid**	**GC 4**	**01/24/12**	**01/24/12 18:29**	**120124B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1900	40	80	HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	93	42-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14-SVE2	**12-01-1199-5-A**	**01/17/12 12:20**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 21:59**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	73	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SVE2	**12-01-1199-6-A**	**01/17/12 12:15**	**Solid**	**GC 4**	**01/24/12**	**01/24/12 19:00**	**120124B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	390	40	80	HD	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	84	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-AS1	**12-01-1199-7-A**	**01/18/12 09:44**	**Solid**	**GC 4**	**01/24/12**	**01/24/12 19:31**	**120124B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	2900	40	80		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	113	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14.5-MW3A	**12-01-1199-8-A**	**01/18/12 08:58**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 23:01**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	75	42-126	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-MW3A	**12-01-1199-9-A**	**01/18/12 08:45**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 23:32**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	74	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-571-153**	**N/A**	**Solid**	**GC 4**	**01/20/12**	**01/20/12 12:44**	**120120B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	0.50	1	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	76	42-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-571-156**	**N/A**	**Solid**	**GC 4**	**01/24/12**	**01/24/12 15:25**	**120124B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	4.0	8	U	mg/kg

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene - FID	78	42-126	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11.5-SVE1	**12-01-1199-1-A**	**01/17/12 14:10**	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12 15:46**	**120123L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	0.010	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	0.084	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	0.11	0.0050	1		1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	109	60-132		Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	110	62-146		Toluene-d8	122	80-120	AZ

S-8.5-SVE1	**12-01-1199-2-A**	**01/17/12 14:02**	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12 16:42**	**120123L02**

Comment(s): -BH Reporting limits raised due to high level of non-target analytes.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100	U	Diisopropyl Ether (DIPE)	ND	1.0	100	U
Toluene	ND	0.50	100	U	Ethyl-t-Butyl Ether (ETBE)	ND	1.0	100	U
Ethylbenzene	ND	0.50	100	U	Tert-Amyl-Methyl Ether (TAME)	ND	1.0	100	U
Xylenes (total)	ND	0.50	100	U	1,2-Dibromoethane	ND	0.50	100	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	U	1,2-Dichloroethane	ND	0.50	100	U
Tert-Butyl Alcohol (TBA)	ND	5.0	100	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	106	60-132		Dibromofluoromethane	91	63-141	
1,2-Dichloroethane-d4	104	62-146		Toluene-d8	102	80-120	

S-15-SVE3	**12-01-1199-3-A**	**01/17/12 13:19**	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12 15:19**	**120123L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	0.015	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	0.033	0.0050	1		1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	60-132		Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	112	62-146		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12.5-SVE3	**12-01-1199-4-A**	**01/17/12 13:15**	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12 17:09**	**120123L02**

Comment(s): -BH Reporting limits raised due to high level of non-target analytes.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	500	U	Diisopropyl Ether (DIPE)	ND	5.0	500	U
Toluene	ND	2.5	500	U	Ethyl-t-Butyl Ether (ETBE)	ND	5.0	500	U
Ethylbenzene	ND	2.5	500	U	Tert-Amyl-Methyl Ether (TAME)	ND	5.0	500	U
Xylenes (total)	ND	2.5	500	U	1,2-Dibromoethane	ND	2.5	500	U
Methyl-t-Butyl Ether (MTBE)	ND	2.5	500	U	1,2-Dichloroethane	ND	2.5	500	U
Tert-Butyl Alcohol (TBA)	ND	25	500	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	60-132		Dibromofluoromethane	93	63-141	
1,2-Dichloroethane-d4	98	62-146		Toluene-d8	101	80-120	

S-14-SVE2	12-01-1199-5-A	01/17/12 12:20	Solid	GC/MS UU	01/20/12	01/20/12 17:01	120120L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	ND	0.0050	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	ND	0.0050	1	U	1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	60-132		Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	112	62-146		Toluene-d8	100	80-120	

S-10-SVE2	12-01-1199-6-A	01/17/12 12:15	Solid	GC/MS UU	01/20/12	01/23/12 19:26	120123L02

Comment(s): -BH Reporting limits raised due to high level of non-target analytes.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100	U	Diisopropyl Ether (DIPE)	ND	1.0	100	U
Toluene	ND	0.50	100	U	Ethyl-t-Butyl Ether (ETBE)	ND	1.0	100	U
Ethylbenzene	ND	0.50	100	U	Tert-Amyl-Methyl Ether (TAME)	ND	1.0	100	U
Xylenes (total)	ND	0.50	100	U	1,2-Dibromoethane	ND	0.50	100	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	U	1,2-Dichloroethane	ND	0.50	100	U
Tert-Butyl Alcohol (TBA)	ND	5.0	100	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	60-132		Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	105	62-146		Toluene-d8	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-AS1	**12-01-1199-7-A**	**01/18/12 09:44**	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12 19:53**	**120123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	500	U	Diisopropyl Ether (DIPE)	ND	5.0	500	U
Toluene	ND	2.5	500	U	Ethyl-t-Butyl Ether (ETBE)	ND	5.0	500	U
Ethylbenzene	47	2.5	500		Tert-Amyl-Methyl Ether (TAME)	ND	5.0	500	U
Xylenes (total)	ND	2.5	500	U	1,2-Dibromoethane	ND	2.5	500	U
Methyl-t-Butyl Ether (MTBE)	ND	2.5	500	U	1,2-Dichloroethane	ND	2.5	500	U
Tert-Butyl Alcohol (TBA)	ND	25	500	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	60-132		Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	105	62-146		Toluene-d8	105	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14.5-MW3A	**12-01-1199-8-A**	**01/18/12 08:58**	**Solid**	**GC/MS UU**	**01/20/12**	**01/20/12 18:50**	**120120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	0.015	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	0.0052	0.0050	1		1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	98	60-132		Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	107	62-146		Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-MW3A	**12-01-1199-9-A**	**01/18/12 08:45**	**Solid**	**GC/MS UU**	**01/20/12**	**01/20/12 19:17**	**120120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	ND	0.0050	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	ND	0.0050	1	U	1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	60-132		Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	113	62-146		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	mg/kg

Project: ExxonMobil 79374/022735C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-882-1,259**	**N/A**	**Solid**	**GC/MS UU**	**01/20/12**	**01/20/12 11:33**	**120120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	ND	0.0050	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	ND	0.0050	1	U	1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	60-132		Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	121	62-146		Toluene-d8	97	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-882-1,260**	**N/A**	**Solid**	**GC/MS UU**	**01/23/12**	**01/23/12 12:35**	**120123L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1	U	Diisopropyl Ether (DIPE)	ND	0.010	1	U
Toluene	ND	0.0050	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	U
Ethylbenzene	ND	0.0050	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	U
Xylenes (total)	ND	0.0050	1	U	1,2-Dibromoethane	ND	0.0050	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	U	1,2-Dichloroethane	ND	0.0050	1	U
Tert-Butyl Alcohol (TBA)	ND	0.050	1	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	60-132		Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	107	62-146		Toluene-d8	100	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-882-1,261**	**N/A**	**Solid**	**GC/MS UU**	**01/23/12**	**01/23/12 13:02**	**120123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100	U	Diisopropyl Ether (DIPE)	ND	1.0	100	U
Toluene	ND	0.50	100	U	Ethyl-t-Butyl Ether (ETBE)	ND	1.0	100	U
Ethylbenzene	ND	0.50	100	U	Tert-Amyl-Methyl Ether (TAME)	ND	1.0	100	U
Xylenes (total)	ND	0.50	100	U	1,2-Dibromoethane	ND	0.50	100	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	U	1,2-Dichloroethane	ND	0.50	100	U
Tert-Butyl Alcohol (TBA)	ND	5.0	100	U					

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	60-132		Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	104	62-146		Toluene-d8	96	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14.5-MW3A	**Solid**	**GC 46**	**01/23/12**	**01/23/12**	**120123S02**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	400.0	106	108	64-130	2	0-15	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI	Date Received:	01/20/12
601 North McDowell Blvd.	Work Order No:	12-01-1199
Petaluma, CA 94954-2312	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14.5-MW3A	**Solid**	**GC 46**	**01/23/12**	**01/23/12**	**120123S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	106	110	64-130	4	0-15	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1112-1	**Solid**	**GC 4**	**01/20/12**	**01/20/12**	**120120S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	10.00	93	92	48-114	1	0-23	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 01/20/12
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1112-1	**Solid**	**GC/MS UU**	**01/19/12**	**01/20/12**	**120120S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	90	78	61-127	14	0-20	
Toluene	0.05000	92	79	63-123	15	0-20	
Ethylbenzene	0.05000	91	77	57-129	16	0-22	
Methyl-t-Butyl Ether (MTBE)	0.05000	84	64	57-123	28	0-21	BA
Tert-Butyl Alcohol (TBA)	0.2500	82	70	30-168	16	0-34	
Diisopropyl Ether (DIPE)	0.05000	81	66	57-129	21	0-20	BA
Ethyl-t-Butyl Ether (ETBE)	0.05000	78	62	55-127	23	0-20	BA
Tert-Amyl-Methyl Ether (TAME)	0.05000	79	63	58-124	23	0-20	BA
Ethanol	0.5000	149	119	17-167	22	0-47	
1,1-Dichloroethene	0.05000	93	83	47-143	11	0-25	
1,2-Dibromoethane	0.05000	88	67	64-124	27	0-20	BA
1,2-Dichlorobenzene	0.05000	83	67	35-131	21	0-25	
1,2-Dichloroethane	0.05000	102	80	80-120	25	0-20	BA
Carbon Tetrachloride	0.05000	97	87	51-135	11	0-29	
Chlorobenzene	0.05000	87	74	57-123	17	0-20	
Trichloroethene	0.05000	95	82	44-158	15	0-20	
Vinyl Chloride	0.05000	122	119	49-139	2	0-47	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	01/20/12
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1236-1	**Solid**	**GC/MS UU**	**01/20/12**	**01/23/12**	**120123S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	89	90	61-127	2	0-20	
Toluene	0.05000	86	90	63-123	4	0-20	
Ethylbenzene	0.05000	88	87	57-129	1	0-22	
Methyl-t-Butyl Ether (MTBE)	0.05000	86	86	57-123	0	0-21	
Tert-Butyl Alcohol (TBA)	0.2500	101	101	30-168	0	0-34	
Diisopropyl Ether (DIPE)	0.05000	85	84	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	85	84	55-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	85	89	58-124	4	0-20	
Ethanol	0.5000	127	125	17-167	1	0-47	
1,1-Dichloroethene	0.05000	87	90	47-143	3	0-25	
1,2-Dibromoethane	0.05000	100	100	64-124	0	0-20	
1,2-Dichlorobenzene	0.05000	81	81	35-131	1	0-25	
1,2-Dichloroethane	0.05000	100	99	80-120	1	0-20	
Carbon Tetrachloride	0.05000	89	87	51-135	3	0-29	
Chlorobenzene	0.05000	89	89	57-123	1	0-20	
Trichloroethene	0.05000	89	90	44-158	1	0-20	
Vinyl Chloride	0.05000	96	96	49-139	1	0-47	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-254-2,319	Solid	GC 46	01/23/12	01/23/12	120123B02

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	400.0	113	113	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 12-01-1199
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-275-4,348	Solid	GC 46	01/23/12	01/23/12	120123B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	112	122	75-123	9	0-12	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-571-156	**Solid**	**GC 4**	**01/24/12**	**01/24/12**	**120124B02**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	10.00	95	95	70-124	0	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-571-153	Solid	GC 4	01/20/12	01/20/12	120120B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	10.00	97	97	70-124	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 12-01-1199
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-882-1,259	**Solid**	**GC/MS UU**	**01/20/12**	**01/20/12**	**120120L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	90	92	78-120	71-127	2	0-20	
Toluene	0.05000	90	90	77-120	70-127	0	0-20	
Ethylbenzene	0.05000	92	92	76-120	69-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	0.05000	87	88	77-120	70-127	2	0-20	
Tert-Butyl Alcohol (TBA)	0.2500	96	93	68-122	59-131	4	0-20	
Diisopropyl Ether (DIPE)	0.05000	87	89	78-120	71-127	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	88	90	78-120	71-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	90	87	75-120	68-128	3	0-20	
Ethanol	0.5000	126	117	56-140	42-154	7	0-20	
1,1-Dichloroethene	0.05000	95	93	74-122	66-130	1	0-20	
1,2-Dibromoethane	0.05000	100	103	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	0.05000	89	89	75-120	68-128	0	0-20	
1,2-Dichloroethane	0.05000	105	107	80-120	73-127	2	0-20	
Carbon Tetrachloride	0.05000	96	97	49-139	34-154	2	0-20	
Chlorobenzene	0.05000	93	91	79-120	72-127	1	0-20	
Trichloroethene	0.05000	95	94	80-120	73-127	1	0-20	
Vinyl Chloride	0.05000	113	116	68-122	59-131	3	0-20	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-882-1,260	**Solid**	**GC/MS UU**	**01/23/12**	**01/23/12**	**120123L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	91	96	78-120	71-127	5	0-20	
Toluene	0.05000	93	96	77-120	70-127	3	0-20	
Ethylbenzene	0.05000	95	96	76-120	69-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	0.05000	97	93	77-120	70-127	4	0-20	
Tert-Butyl Alcohol (TBA)	0.2500	108	100	68-122	59-131	8	0-20	
Diisopropyl Ether (DIPE)	0.05000	93	90	78-120	71-127	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	95	90	78-120	71-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	93	92	75-120	68-128	1	0-20	
Ethanol	0.5000	149	125	56-140	42-154	17	0-20	LQ,RU
1,1-Dichloroethene	0.05000	95	93	74-122	66-130	3	0-20	
1,2-Dibromoethane	0.05000	109	111	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	0.05000	101	94	75-120	68-128	7	0-20	
1,2-Dichloroethane	0.05000	107	102	80-120	73-127	5	0-20	
Carbon Tetrachloride	0.05000	99	95	49-139	34-154	4	0-20	
Chlorobenzene	0.05000	94	99	79-120	72-127	5	0-20	
Trichloroethene	0.05000	91	92	80-120	73-127	1	0-20	
Vinyl Chloride	0.05000	119	105	68-122	59-131	13	0-20	

Total number of LCS compounds : 17
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Cardno ERI		Date Received:	N/A
601 North McDowell Blvd.		Work Order No:	12-01-1199
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-882-1,261	Solid	GC/MS UU	01/23/12	01/23/12	120123L02

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	0.05000	91	96	78-120	71-127	5	0-20	
Toluene	0.05000	93	96	77-120	70-127	3	0-20	
Ethylbenzene	0.05000	95	96	76-120	69-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	0.05000	97	93	77-120	70-127	4	0-20	
Tert-Butyl Alcohol (TBA)	0.2500	108	100	68-122	59-131	8	0-20	
Diisopropyl Ether (DIPE)	0.05000	93	90	78-120	71-127	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	0.05000	95	90	78-120	71-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	0.05000	93	92	75-120	68-128	1	0-20	
Ethanol	0.5000	149	125	56-140	42-154	17	0-20	LQ,RU
1,1-Dichloroethene	0.05000	95	93	74-122	66-130	3	0-20	
1,2-Dibromoethane	0.05000	109	111	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	0.05000	101	94	75-120	68-128	7	0-20	
1,2-Dichloroethane	0.05000	107	102	80-120	73-127	5	0-20	
Carbon Tetrachloride	0.05000	99	95	49-139	34-154	4	0-20	
Chlorobenzene	0.05000	94	99	79-120	72-127	5	0-20	
Trichloroethene	0.05000	91	92	80-120	73-127	1	0-20	
Vinyl Chloride	0.05000	119	105	68-122	59-131	13	0-20	

Total number of LCS compounds : 17
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-01-1199

Qualifier	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.
U	Undetected at detection limit.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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Sandy Tat

From: Jennifer Lacy [jennifer.lacy@cardno.com]
Sent: Monday, January 23, 2012 8:38 AM
To: Sandy Tat
Subject: COCs
Attachments: 79374_20120123114030.pdf; 99105_20120123112652.pdf

Cardno ERI

Hi Sandy,
Jake asked me to forward these COCs to you.
His computer is not working right this morning.

Please refer all questions/correspondence regarding these projects to Jake.

Thanks!

Jennifer L. Lacy
Senior Staff Scientist
LPS Coordinator
Cardno ERI

601 North McDowell Blvd., Petaluma, CA 94954
Phone: 707 766 2000 **Direct:** 707 766 2017 **Mobile:** 707 338 6998 **Fax:** 707 789 0414
Email: jennifer.lacy@cardno.com
Cardno ERI Web: www.cardnoeri.com
Cardno Web: www.cardno.com

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Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494
Fax: 714-894-7501

ExxonMobil
12-01-1199

Consultant Name: Cardno ERI | Account #: NA | PO#: Direct Bill to Cardno ERI
Consultant Address: 801 North McDowell Blvd. | Invoice To: Direct Bill to Cardno ERI
Consultant City/State/Zip: Petaluma, California 94954 | Report To: Paula Sime
ExxonMobil Project Mgr: Jennifer Sedlachek | Project Name: 022735C
Consultant Project Mgr: Paula Sime | ExxonMobil Site #: 79374 | Major Project (AFE #):
Consultant Telephone Number: (707) 766-2000 | Fax No.: | Site Address: 990 San Pablo Avenue
Sampler Name (Print): Alex Snyder | Site City, State, Zip: Albany, CA
Sampler Signature: | Oversight Agency: Alameda County Health Care Services Agency

	Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl	NaOH	H_2SO_4 Plastic	H_2SO_4 Glass	HNO_3	Ice	Other	None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify): Distilled Water	Analyze For: TPHg and TPHd by EPA 8015B	TPHmo 8015B	BTEX by EPA 8260B	7 Oxys by EPA 8260B				RUSH TAT (Pre-Scheduled)	5-day TAT	Standard 10-day TAT	Due Date of Report
1	S-11.5-SVE1	SVE1	1-17-12	1410	1	X										X							X			X	X	X	X						X	
2	S-8.5-SVE1	SVE1	1-17-12	1402	1	X																														
3	S-15-SVE3	SVE3	1-17-12	1319	1	X																														
4	S-12.5-SVE3	SVE3	1-17-12	1315	1	X																														
5	S-14-SVE2	SVE2	1-17-12	1220	1	X																														
6	S-10-SVE2	SVE2	1-18-12	1245	1	X																														
7	S-10-AS1	AS1	1-18-12	944	1	X																														
8	S-14.5-MW3A	MW3A	1-18-12	858	1	X																														
9	S-8-MW3A	MW3A	1-18-12	845	1	X																														

Comments/Special Instructions:
7 Oxys: MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, EDB

GLOBAL ID # T0619716673

PLEASE E-MAIL ALL PDF FILES TO ERI-EIMLABS@eri-us.com Norcallabs@eri-us.com

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
	1/19/12	1200	Tom Malley CEL	1/19/12	1200
Relinquished by: Tom Malley TO GSO	1/19/12	1730	Received by (Lab personnel): Dannyle CEL	1/20/12	10:40

QC Deliverables (please circle one)
Level 2
Level 3
Level 4
Site Specific - if yes, please attach pre-schedule w/ TestAmerica Project Manager or attach specific instructions

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Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
F[illegible]: 714-895-5494
Fax: 714-894-7501

ExxonMobil
12-01-1199

Consultant Name: Cardno ERI | **Account #:** NA | **PO#:** Direct Bill to Cardno ERI
Consultant Address: 601 North McDowell Blvd. | **Invoice To:** Direct Bill to Cardno ERI
Consultant City/State/Zip: Petaluma, California 94954 | **Report To:** Paula Sime
ExxonMobil Project Mgr: Jennifer Sedlachek | **Project Name:** 022735C
Consultant Project Mgr: Paula Sime | **ExxonMobil Site #:** 79374 | **Major Project (AFE #):**
Consultant Telephone Number: (707) 766-2000 | **Fax No.:** | **Site Address:** 990 San Pablo Avenue
Sampler Name (Print): Alex Snyder | **Site City, State, Zip:** Albany, CA
Sampler Signature: | **Oversight Agency:** Alameda County Health Care Services Agency

	Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl	NaOH	H_2SO_4 Plastic	H_2SO_4 Glass	HNO_3	Ice	Other	None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify): Distilled Water	Analyze For: TPHg and TPHd by EPA 8015B	TPHmo 8015B	BTEX by EPA 8260B	7 Oxys by EPA 8260B				RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report
1	S-11.5-SVE1	SVE1	1-17-12	1410	1	X										X							X			X	X	X						X	
2	S-8.5-SVE1	SVE1	1-17-12	1402	1	X																													
3	S-15-SVE3	SVE3	1-17-12	1319	1	X																													
4	S-12.5-SVE3	SVE3	1-17-12	1315	1	X																													
5	S-14-SVE2	SVE2	1-17-12	1220	1	X																													
6	S-10-SVE2	SVE2	1-17-12	1245	1	X																													
7	S-10-AS1	AS1	1-18-12	944	1	X																													
8	S-14.5-MW3A	MW3A	1-18-12	858	1	X																													
9	S-8-MW3A	MW3A	1-18-12	845	1	X																													

Comments/Special Instructions:
7 Oxys: MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, EDB

GLOBAL ID # T0619716673

PLEASE E-MAIL ALL PDF FILES TO
ERI-EIMLABS@eri-us.com Norcallabs@eri-us.com

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

		Date	Time		Date	Time
Relinquished by:		1/19/12	1200	Received by: Tor O'Malley CEL	1/19/12	1200
Relinquished by: Tor O'Malley TO GSO		1/19/12	1730	Received by (Lab personnel): Danny L CEL	1/20/12	1040

QC Deliverables (please circle one)
Level 2
Level 3
Level 4
Site Specific - if yes, please attach pre-schedule w/ TestAmerica Project Manager or attach specific instructions

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1199

GSO

< WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
CARDNO ERI

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 518276574

NPS

ORC

A

GARDEN GROVE

D92841A

97882168

Print Date : 01/19/12 15:39 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-01-[1][1][9][9]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI

DATE: 01/20/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.3 °C - 0.3 °C (CF) = 1.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: bL

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: bL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: SH

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☑Sleeve (5) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SH

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** YL

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** YL

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APPENDIX G

WASTE DISPOSAL DOCUMENTATION

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
1 1		391/732	A07	38735	001

Generator and/or Consultant

Generator's Name and Billing Address:
EXXONMOBIL OIL CORP.
ATTN: EMES ADMINISTRATOR
2655 W. 190TH ST. #1106
TORRANCE, CA 90504

Generator's Phone #: 310-212-2938
Person to Contact:
FAX#:
Customer Account Number:

Consultant's Name and Billing Address:
Cardno ERI - Petaluma

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number:

Generation Site (Transport from): *(name & address)*
EXXONMOBIL 79374
990 SAN PABLO AVE
ALBANY, CA 94706

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): *(name & address)*
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 982-8001
Person to Contact: DELLENA JEFFREY
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
26971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 201936

Transporter's Phone #: 949-460-6200
CAR000183913
Person to Contact: LARRY MOOTHART
450647
FAX#: 949-460-6210
Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	14	Soil	45520	37600	7920
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					3.96

List any exception to items listed above: Scale Ticket # 100022

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☒ Paula Sime / Cardno ERI
Signature and date: On Behalf of Exxonmobil: Month 2 Day 10 Year 12

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Luis Navarro
Signature and date: Month 2 Day 15 Year 12

Recycling Facility

Discrepancies:
79374
740050

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY/J. PROVANSAL
Signature and date: 3.1.12

Please print or type.

TRANSPORTER COPY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. ERI2735

2. Page 1 of 1

3. Generator's Name and Mailing Address
EM# 79374
990 SAN PABLO AVE
ALBANY, CA

CARDNO ERI

4. Generator's Phone ( )

5. Transporter 1 Company Name
INSTRAT INC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 707-374-3834

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
INSTRAT INC
1105-C AIRPORT RD
RIO VISTA, CA

10. US EPA ID Number
CAROOO150599

E. State Facility's ID

F. Facility's Phone 707-374-3834

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZ PURGE WATER	1	POLY	275	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
COLOR- BROWN
ODOR- Ø
SOLIDS- Ø

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Garrett Sibert	Garrett Sibert	2	1	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

INSTRAT INC

Printed/Typed Name	Signature	Date Month	Day	Year
MICHAEL WHITEHEAD	Michael Whitehead	2	1	12

APPENDIX H

SURVEY DATA

Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFF_DATE
T0619716673	MW-3A	2/6/2012	40.68	DIG	88	0.3	MORROW SURVEYING, MATT MORROW LS 8501		TOP OF CASING	
T0619716673	SVE-1	2/6/2012	40.58	DIG	88	0.3	MORROW SURVEYING, MATT MORROW LS 8501		TOP OF CASING	
T0619716673	SVE-2	2/6/2012	40.94	DIG	88	0.3	MORROW SURVEYING, MATT MORROW LS 8501		TOP OF CASING	
T0619716673	SVE-3	2/6/2012	40.93	DIG	88	0.3	MORROW SURVEYING, MATT MORROW LS 8501		TOP OF CASING	

Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
T0619716673	MW-3A		2/6/2012	37.8879037	-122.2985623	CGPS	NAD83	30	MORROW SURVEYING, MATT MORROW LS 8501	TR	TOP OF BOX
T0619716673	SVE-1		2/6/2012	37.8879326	-122.2985668	CGPS	NAD83	30	MORROW SURVEYING, MATT MORROW LS 8501	TR	TOP OF BOX
T0619716673	SVE-2		2/6/2012	37.8879620	-122.2985456	CGPS	NAD83	30	MORROW SURVEYING, MATT MORROW LS 8501	TR	TOP OF BOX
T0619716673	SVE-3		2/6/2012	37.8879296	-122.2984573	CGPS	NAD83	30	MORROW SURVEYING, MATT MORROW LS 8501	TR	TOP OF BOX
T0619716673	AS-1		2/6/2012	37.8879226	-122.2985448	CGPS	NAD83	30	MORROW SURVEYING, MATT MORROW LS 8501	TR	TOP OF BOX